SPACE SPACE ECCOUNTERS PARTS AND OPERATING MANUAL





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WARNING

THIS GAME MUST BE GROUNDED. FAILURE TO DO SO MAY RESULT IN DESTRUCTION TO ELECTRONIC COMPONENTS.

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GENERAL INSTRUCTIONS FOR SPACE ENCOUNTERS

INSTALLATION

- 1. Remove shipping cleats located on bottom of cabinet.
- 2. Install four (4) provided leg levelers to bottom of cabinet and level cabinet.
- The power is controlled by a switch located on top of the cabinet. Plug into A.C. only, 115 volts, 60 cycles.

LINE VOLTAGE SAFETY SWITCH

A line voltage safety switch has been provided for your protection. It is located on the right rear side of the cabinet. When the door is removed, it opens the circuit to the line voltage. To restore power when servicing, pull switch fully out.

TO CENTER PICTURE

- Place adjustment switch (5) "ON" and (6) "OFF". These switches are located on Game Logic (P.C. A084-90700-F645). Switch adjustment card is located in rear of cabinet area.
- 2. Adjust monitor so that cross-hatch is inside of viewing area.

TO SERVICE CONTROL PANEL

- 1. Open coin box door.
- 2. Release two (2) clamps, located on each side of cabinet.
- 3. Disconnect control cable jack if removing unit from cabinet.

TO ADJUST CONTROL PANEL VERTICAL AND HORIZONTAL ENCODERS

- 1. Place adjustment switch (5) "OFF" and (6) "ON".
- 2. Press trigger button, located on steering control to set encoder test mode.
- 3. Loosen set screws on vertical encoder gear (at rear of assembly).
- Rotate encoder shaft until defense ship stops in lower part of the viewing area.
 NOTE: Steering control must be in it's furthest out position.
- 5. Tighten set screws.
- Loosen set screws on horizontal encoder gear.
- Hold hand grips in a horizontal position and rotate encoder shaft until defense ship is in center of screen.
- Tighten set screws.

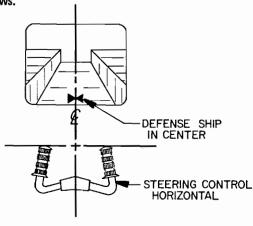


FIGURE I

During this test mode, you can play the game without the defense ship being hit to check:

- a. Coin switch
- b. Trigger switch
- c. Score and bonus
- d. All sounds (except defense ship hit)
- e. Defense ship travel
- f. Reset switches (5) and (6)

VOLTAGE CONTROL POTS

Located on Power Supply Board (P.C. A084-91324-F645) and are preset at the factory. These pots should not be tampered with unless the distributor service department is contacted.

VOLUME CONTROL

Located on sound board (P.C. A084-91324-0645) controls the volume of all sounds and may be varied as desired by rotating pot control.

STROBE LITE ASSEMBLY

Located on top shelf of game. Before servicing this unit, turn off game and wait three (3) minutes to avoid shock.

CLEANING OF PICTURE TUBE, GLASS & PLEXI

- 1. Remove control panel.
- Remove screws at bottom of plastic viewing bezel. Remove bezel.
- 3. Remove two (2) brackets holding the clear front glass and lift out.
- 4. Remove two (2) brackets from bottom of interior shelf to lower screened plexi-glass for cleaning.

ELECTRICAL BULLETIN: FOR ALL APPARATUS COVERED BY THE CANADIAN STANDARDS ASSOCIATION (CSA) STANDARD C22.2 NO. 1, WHICH EMPLOYS A SUPPLY CORD TERMINATED WITH A POLARIZED 2-PRONG ATTACHMENT PLUG.

CAUTION:

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION:

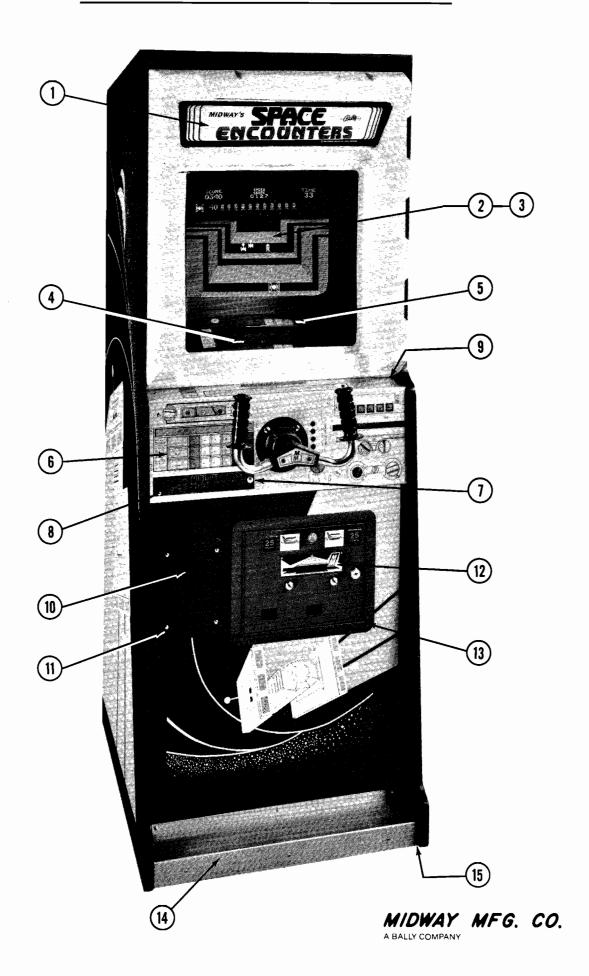
POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR. UNE PRISE DE COURANT OU UNE AUTRIE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

SWITCH ADJUSTMENTS

В	ONUS AT	
	SW. 1	SW. 2
2000, 4000, 8000 PTS.	ON	ON
3000, 6000, 12000 PTS.	OFF	ON
4000, 8000, 16000 PTS.	ON	OFF
5000, 10000, 20000 PTS.	OFF	OFF
METI	HOD OF PLAY	
	SW. 3	SW. 4
1 COIN – 1 PLAY	ON	ON
2 COINS – 1 PLAY	OFF	ON
1 COIN — 3 PLAYS	ON	OFF
2 COINS – 3 PLAYS	OFF	OFF
	SW. 5	SW. 6
BONUS	ON	ON
NO BONUS	OFF	OFF
CROSS HATCH	ON	OFF
RAM-ROM TEST	OFF	ON
ENCODER ALIGNMENT		
TIN	ME OF PLAY	
	SW. 7	SW. 8
45 SECONDS	ON	ON
60 SECONDS	OFF	ON
75 SECONDS	ON	OFF
90 SECONDS	OFF	OFF

M051-00645-A012

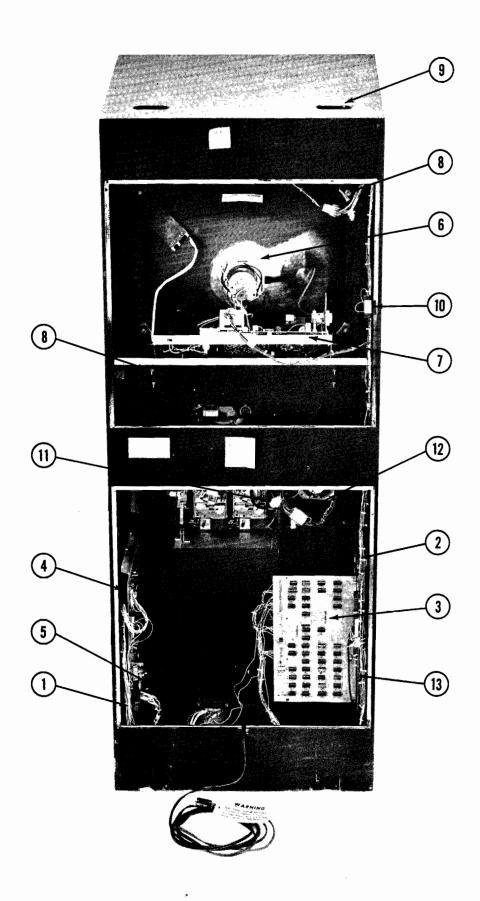
NO. 645 - SPACE ENCOUNTERS - PHOTOGRAPH



NO. 645 - SPACE ENCOUNTERS - PHOTOGRAPH ORDER BY PART NUMBER ONLY

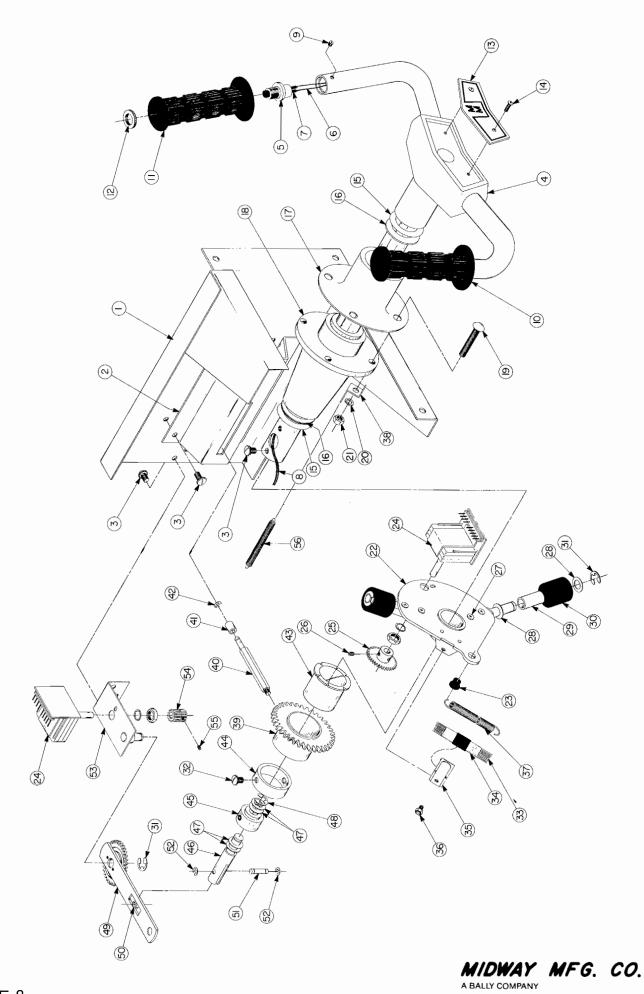
	ORDER BY PART NUMBER ONLY			
ITEM	PART Nº	DESCRIPTION		
1	A645-00020-0000	PLASTIC BEZEL ASSY.		
2	0645-00919-0000	COLORED SCREEN OVERLAY		
3	0645-00910-0000	FRONT GLASS — 23-9/16" x 20" x 3/16"		
	0537-00903-0017	GLASS CHANNEL — 18-3/4" LG. (2 REQ'D.)		
	0537-00903-0034	GLASS CHANNEL – 23" LG.		
	0629-00902-0700	GLASS LIFT CHANNEL 23-1/4" LG.		
	0645-00108-00XF	GLASS LOCK BRKT. (2 REQ'D.)		
4	0645-00916-0000	COCKPIT LIGHTS INSERT		
	0645-00506-0000	COCKPIT LIGHTS PANEL		
	0645-00111-0000	SUPPORT BRKT. (2 REQ'D.)		
	0017-00031-0030	WEDGE BASE LIGHT SOCKET (8 REQ'D.)		
	0017-00003-0182	7V., .43 AMP WEDGE LAMP (8 REQ'D.)		
	A645-00032-0000	COCKPIT LIGHTS CABLE ASSY.		
5	0645-00900-00XF	SCENERY CARD — BOTTOM		
	0645-00901-00XF	SCENERY CARD — RIGHT (NOT SEEN)		
	0645-00901-01XF	SCENERY CARD — LEFT (NOT SEEN)		
	0645-00902-00XF	SCENERY CARD — BACK (NOT SEEN)		
6	0645-00100-00XF	CONTROL SHELF PLATE		
7	0017-00102-0019	1/4-20 x 1-1/2 CARRIAGE BOLT (4 REQ'D.)		
	0017-00103-0018	1/4-20 HEX NUT (4 REQ'D')		
ا ا	0017-00104-0005	1/4 SPLIT LOCK WASHER (4 REQ'D.)		
8	0017-00101-0639 0017-00103-0061	#8-32 x 1-1/4 CARRIAGE BOLT (4 REQ'D:) #8-32 HEX NUT (4 REQ'D.)		
1 1	0017-00103-0081	#8 FLAT WASHER (4 REQ'D.)		
9	0017-00104-0022	#6 x 3/4 PHIL. PAN HD. SCREW (3 REQ'D')		
10	0017-00101-0002	SPEAKER GRILL & HARDWARE		
''	0017-00003-0333	SPEAKER		
11	0017-00101-0642	#8-32 x 1-1/2 CARRIAGE BOLT (4 REQ'D.)		
12	A090-00020-2001	DOUBLE ENTRY COIN DOOR ASSY.		
'-	A090-00057-0000	COIN METER ASSY.		
13	0090-00002-02GR	COIN DOOR FRAME		
	0017-00101-0121	#6-32 x 5/16 PHIL. TRUS HD. M.S. (3 REQ'D.)		
		(MOUNTS COIN DOOR TO FRAME)		
14	0645-00911-0000	ALUMINUM STEP		
15	0017-00102-0048	LEG LEVELERS (4 REQ'D.)		
	0017-00103-0026	LEG LEVELER NUTS (4 REQ'D.)		
		NOT SHOWN LIST		
	0017-00009-0033	BASSICK CLAMP (2 REQ'D.)		
	0603-00131-0000	STRIKE (2 REQ'D.)		
	0645-00107-00XF	SPRING BRKT. (MOUNTS STEERING,		
		CONTROL SPRING TO CABINET SIDE).		

NO. 645 - SPACE ENCOUNTERS - BACK PICTURE



NO. 0645 - SPACE ENCOUNTERS - BACK PICTURE ORDER BY PART NUMBER ONLY

	ONDER BY PART NOMBER ONLY			
ITEM	PART Nº	DESCRIPTION		
1	A082-90400-H000	POWER SUPPLY P.C.B. ASSY.		
2	A082-90000-L645	MOTHER P.C.B. ASSY.		
3	A084-90700-G645	GAME LOGIC P.C.B. ASSY.		
4	A084-91324-F645	SOUND P.C.B. ASSY.		
	0624-00902-0100	P.C. SUPPORT BRKT. 12" (5 REQ'D.)		
	0624-00902-0300	P.C. SUPPORT BRKT. 2-1/2" (7 REQ'D.)		
	0017-00101-0025	#8 x 1/2 HEX HD. WOOD SCREW (29 REQ'D.)		
	0017-00104-0037	#8 FLAT WASHER (29 REQ'D.)		
5	A905-00022-0000	TRANSFORMER BOARD ASSY.		
6	0017-00003-0199	22" CATHODE RAY TUBE		
7	0017-00003-0198	22" CHASSIS		
	0017-00003-0322	22" C.R.T. YOKE		
	A739-00010-0000	DAG SPRING ASSY.		
	3000-17175-0000	GROUND STRAP		
	0592-00104-0100	CHASSIS MTG. BRKT. R.H.		
ł	0592-00104-0200	CHASSIS MTG. BRKT. L.H.		
	0645-00502-0000	CHASSIS PANEL		
8	0017-00101-0637	#8-32 x 1 CARRIAGE BOLT (4 TUBE, 4 CHASSIS)		
	0017-00104-0022	#8 FLAT WASHER (4 TUBE, 4 CHASSIS)		
	0017-00103-0061	#8-32 HEX NUT SEMS (4 TUBE, 4 CHASSIS)		
9	0017-00032-0005	ON-OFF SWITCH		
	0567-00106-0100	SWITCH MTG. PLATE		
	0017-00101-0025	#8 x 1/2 SLOT HEX HD. WOOD SCREW (4 REQ'D.)		
10	A645-00022-00XF			
	0017-00003-0225	INTERLOCK SWITCH		
11	A622-00018-0000	COIN DOOR CABLE ASSY.		
12	A645-00033-0000	CONTROL SHELF CABLE ASSY.		
13	A645-00034-0000	MASTER CABLE ASSY.		
	A 007 00001 0000	ADDITIONAL PARTS LIST		
1	A097-00001-0000 0017-00009-0490	LOCK ASSY BACK DOOR (2 REQ'D.) VENT SCREEN (4 REQ'D.)		
1	0017-00009-0490	MOLDED CASH BOX		
1	A623-00013-0000	COIN BOX COVER ASSY.		
İ	A624-00001-0000	COIN BOX GUIDE BRKT. ASSY.		
	0624-00101-0000	COIN BOX GUIDE BRKT.		
	002+00101-0000	COIN BOX GOIDE BIIKT.		



NO. 645 - SPACE ENCOUNTERS - CONTROL SHELF ASSY.

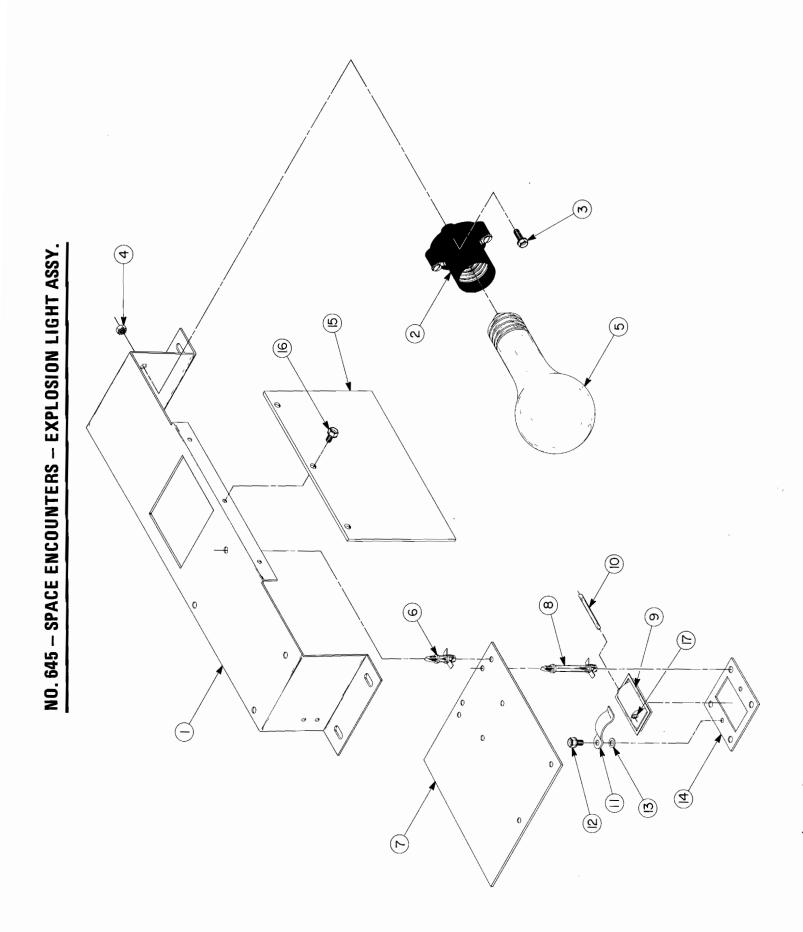
ITEM	DART NO	DESCRIPTION			
ITEM	PART Nº	DESCRIPTION			
1 1	A645-00006-00XF	BASE & BRACE ASSY.			
2	0645-00106-00XF	STOP BRKT.			
3	0017-00101-0652	#10-32 3/8 SLOT PAN HD. S.M.S. (9 REQ'D.)			
4	A645-00011-0000	BASE - TUBE & HANDLE ASSY.			
5	0017-00032-0004	SWITCH			
6	0017-00033-0334	CABLE - 2 LEAD			
7	M033-00100-0001	SHRINK TUBING (2 REQ'D.)			
8	0010-00225-0200	CABLE GUARD			
9	0017-00101-0307	#8-32 x 1/8 SETSCREW (2 REQ'D.)			
10	0017-00009-0443	GRIP			
11	0645-00917-0000	GRIP			
12	0017-00021-0009	15/32-32 ROUND NUT			
13	0645-00912-0000	CONTROL INSERT			
14	0017-00101-0116	#10-32 x 1/4 TAMPER PROOF SCREW (2 REQ'D.)			
15	0017-00041-0617	RING - NEOPRENE (2 REQ'D.)			
16	0645-00913-0000	WASHER - FRICTION (2 REQ'D.)			
17	0645-00905-0000	SHROUD			
18	A645-00012-0000	PEDESTAL ASSY.			
19	0017-00102-0019	1/4-20 x 1-1/2 CARRIAGE BOLT (4 REQ'D.)			
20	0017-00104-0005	1/4 SPLIT LOCK WASHER (4 REQ'D.)			
21	0017-00103-0018	1/4-20 HEX NUT (4 REQ'D.)			
22	A645-00008-00XF	STOP PLATE & HUB ASSY.			
23	0017-00042-0016	SNAP BUSHING			
24	A082-91101-B000	ENCODER (2 REQ'D.)			
25	A645-00024-0000	GEAR & BUSHING ASSY.			
26	0017-00101-0309	#8-32 x 1/4 SET SCREW (2 REQ'D.)			
27	0017-00101-0658	#10-32 x 5/8 PHIL. PAN HD. SCREW (4 REQ'D.)			
28	0017-00104-0032	FLAT WASHER (4 REQ'D.)			
29	0645-00906-0000	BEARING (2 REQ'D.)			
30	0645-00907-0000	RUBBER ROLLER (2 REQ'D.)			
31	0017-00100-0031	E-RING (3 REQ'D.)			
32	0017-00101-0652	#10-32 x 3/8 SLOT. PAN HD. SCREW (2 REQ'D.)			
33	0017-00033-0329	CABLE ASSY.			
34	0645-00915-0000	INSULATOR STRIP			
35	A645-00039-0000	CLAMP BRKT. & SPRING PLT. ASSY.			
36	0017-00101-0598	#8-32 x 5/16 SLOT HEX HD. SCREW			
37	0010-00597-0000	SPRING			
38	0645-00117-00XF	"Z" - BRKT.			
39	A645-00007-0000	GEAR & BUSHING ASSY.			

NO. 645 - SPACE ENCOUNTERS - CONTROL SHELF ASSY.

	UNDEN					
ITEM	PART Nº	DESCRIPTION				
40	0645-00702-00XF	ANTI-ROTATION ROD				
41	0645-00908-0000	NYLON ROLLER				
42	0017-00100-0015	E-RING				
43	0017-00042-0222	NYLINER 1-1/4				
44	0645-00708-00XF	COLLAR				
45	A645-00025-0000	PLUG & BEARING ASSY.				
46	0645-00710-00XF	ANTI-TWIST SHAFT				
47	0030-00125-0000	NYLON WASHER (4 REQ'D.)				
48	0017-00100-0037	E-RING				
49	A645-00010-0000	ARM & GEAR ASSY.				
50	0645-00701-00XF	ROLLER				
51	0645-00700-00XF	PIN				
52	0017-00100-0018	E-RING (2 REQ'D.)				
53	A645-00009-0000	BRKT. & PIN ASSY. PINION - 16 TOOTH				
54 55	0583-00723-00B0 0017-00101-0308	#8-32 x 3/16 SETSCREW (2 REQ'D.)				
56	0017-00101-0308	SPRING				
30	0017-00209-0484	TAMPER PROOF ALLEN KEY (NOT SHOWN)				
	0017-00003-0404	TAMPENT HOUT ALLEN KET (NOT SHOWN)				
1 1		THE FOLLOWING PARTS USED TO ATTACH				
		ITEM 22 TO SHAFT				
	0645-00712-00XF	PIN				
	0017-00100-0037	E-RING (2 REQ'D.)				
	0017-00102-0042	1/4-20 x 3/4 SOCKET HD. CAP SCREW				

NOTES

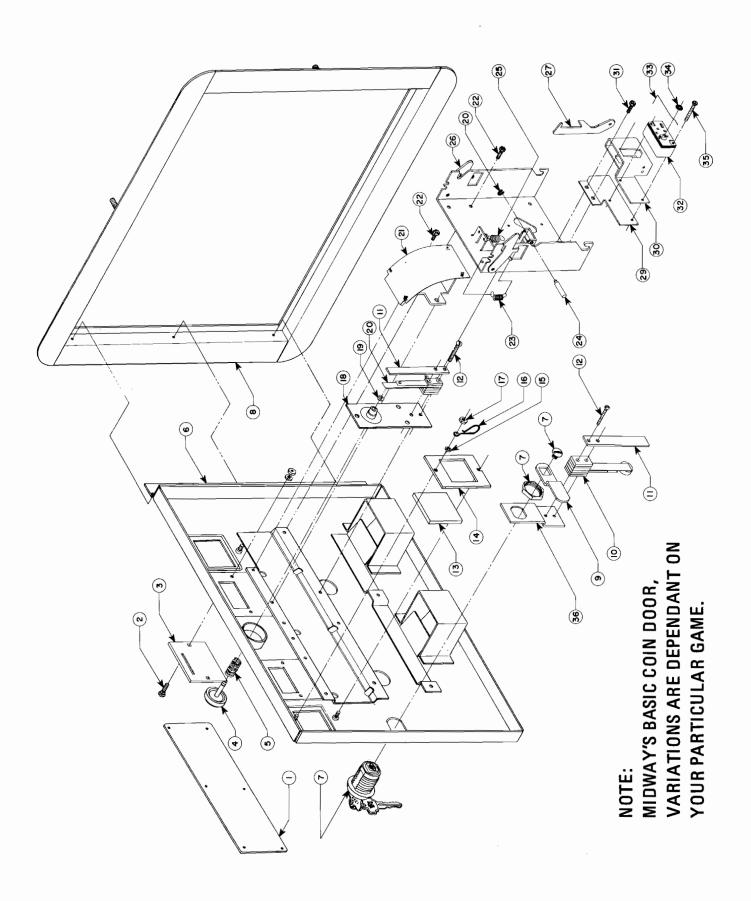
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NO. 645 - SPACE ENCOUNTERS - EXPLOSION LIGHT ASSY.

	UNDEN	BI PART NOMBER ONLT		
ITEM	PART Nº	DESCRIPTION		
1	0645-00115-0000	EXPLOSION LIGHT MTG. BRKT.		
2	0017-00003-0135	LAMP SOCKET		
3	0017-00101-0026	#8-32 x 5/8 SLOT HEX HD. SCREW (2 REQ'D.)		
4	0017-00103-0061	#8-32 HEX NUT SEMS (2 REQ'D.)		
5	0760-00945-00XF	LAMP GE 200 W RED		
6	0017-00042-0231	STANDOFF 3/4 (4 REQ'D.)		
7	A084-91359-B645	EXPLOSION P.C. BOARD		
8	0017-00042-0232	STANDOFF 1-3/8 (4 REQ'D.)		
9	0069-156XX-XXIX	FLASH TUBE - FT19-30K		
10	0069-157XX-XXIX	REFLECTOR		
11	0017-00042-0233	TENSION CLIP		
12	0017-00101-0555	#6-32 x 5/16 SLOT HEX HD. SCREW		
13	0017-00104-0019	#6 FLAT WASHER		
14	0645-00116-0000	STROBE LIGHT HOUSING BRKT.		
15	0645-00114-0000	STROBE LIGHT GUARD		
16	0017-00101-0598	#8-32 x 5/16 SLOT HEX HD. SCREW (3 REQ'D.)		
17	0645-00918-0000	GROMMET (2 REQ'D.)		
	A645-00030-0000	STROBE LIGHT CABLE ASSY. (NOT SHOWN)		
i				
1 1				

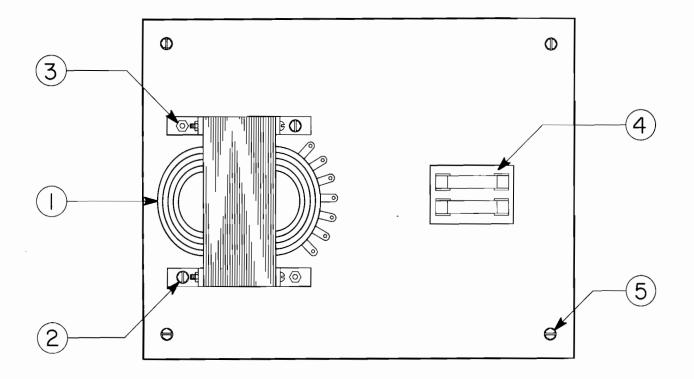
NO. 645 - SPACE ENCOUNTERS - FRONT DOOR ASSY.



NO. 645 - SPACE ENCOUNTERS - FRONT DOOR ASSY.

ITEM	PART Nº	DESCRIPTION					
	0000 00002 0000	DRESS PLATE					
1	0090-00902-0000 0090-00902-0100	DRESS PLATE DRESS PLATE (W/O PRESS BUTTON TO					
	0030-00302-0100	START GAME)					
2	0017-00101-0552	#6-32 x 1/4 CARRIAGE BOLT (2)					
3	0090-00117-03XF	COIN ENTRY PLATE (25¢)					
4	0090-00906-0000	PLASTIC START BUTTON					
5	0010-00007-0000	COMPRESSION SPRING					
6	0090-00013-0200	DOOR ASSY. DOUBLE ENTRY					
7	0017-00005-0050	DOOR LOCK & KEY WITH SCREW & NUT					
8	0090-00002-02BR	DOUBLE DOOR FRAME					
9	0017-00005-0041	421 N.S. CAM					
10	0090-00901-0000	DOOR SWITCH					
11	0090-00126-01XF	SWITCH BACKUP PLATE					
12	0017-00101-0528	#5-40 x 3/4" LNG. M.S.					
13	0090-00903-0040	25¢ WINDOW					
14	0090-00143-0000	COIN PLEX RETAINER					
15	0017-00104-0002	SPLIT LOCK WASHER					
16	0017-00007-0019	KEY HOOK					
17	0017-00103-0005	#6-32 HEX NUT					
18	0090-00010-0000	SW. PLATE & OILLITE ASSY.					
19	0017-00100-0018	"E" RING					
20	0090-00131-0000	SWITCH					
21	0090-00104-0000	TOP & BTM. COIN CHUT W/BRKT. ASSY.					
22	0017-00101-0598	#8-32 x 5/16 SCREW					
23	0010-00181-0100	SPRING					
24	0090-00129-00XF	PIVOT POST					
25 26	0010-00134-0000 0090-00008-0000	SPRING					
27	0093-00155-00XF	ACCEPTOR FRAME ASSY. REJECTOR LEVER					
28	0017-00100-0012	"E" RING					
29	0093-00151-00XF	COIN GUIDE MTG. BRACKET					
30	0090-00005-0000	COIN GUIDE ASSY.					
31	0017-00101-0555	#6-32 x 5/16 SCREW					
32	0017-00005-0039	COIN SWITCH					
33	0010-00557-2500	TRIPWIRE					
34	0017-00007-0132	PUSH-ON RING (BIK)					
35	0017-00101-0507	#4-36 x 3/4 SCREW					
36	0090-00128-00XF	SWITCH BRKT DOOR TILT					
	A090-00061-0000	ANTI-STRING DEVICE ASSY OPTIONAL					
	4000 00004 0000	(REPLACES ITEM 30)					
	A090-00064-0000	ANTI-PENNY DEVICE ASSY.					

NO. 645 - SPACE ENCOUNTERS - TRANSFORMER BOARD ASSY.

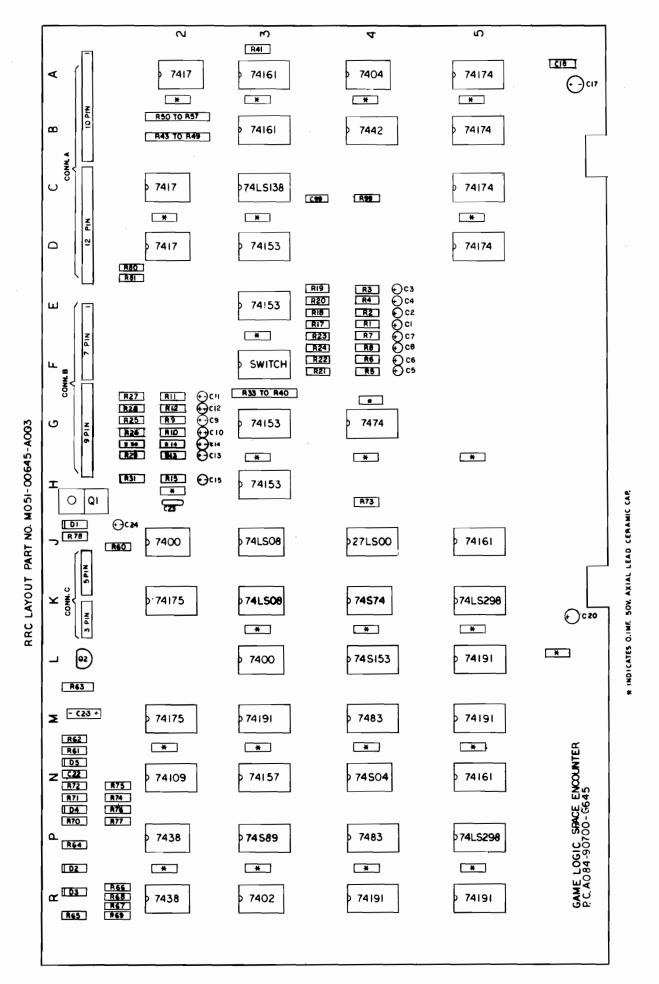


MIDWAY MFG. CO.

NO. 645 - SPACE ENCOUNTERS - TRANSFORMER BOARD ASSY.

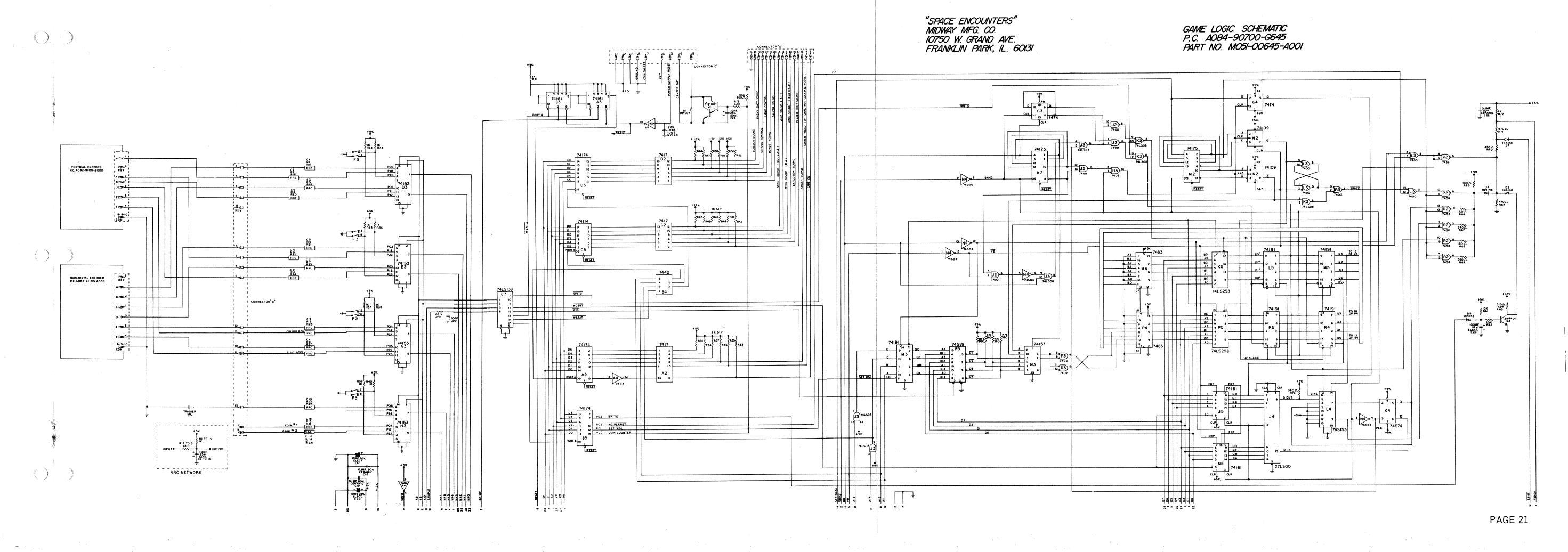
ITEM	PART Nº	DESCRIPTION
1 2 3	MT00-00058-0000 MT00-00059-0000 0017-00101-0017 0017-00101-0637	TRANSFORMER — 60 CYCLE — DOMENTIC (OR) TRANSFORMER — 50 CYCLE — FOREIGN #6 x 1/2 SLT. HEX HD. WD. SCR. (2 REQ'D.) #8-32 x 1" CARRIAGE BOLT (2 REQ'D.) WITH
4	0017-00103-0008 0720-00001-0200 0017-00003-0103 0017-00003-0006	#8-32 HEX NUT (2 REQ'D.) 2 POSITION FUSE BLOCK FUSE 1.5 AMP FUSE 4 AMP
5	0017-00101-0018 0017-00003-0064 0017-00003-0114	#6 x 3/4 SLT. HEX HD. SCREW (5 REQ'D.) 16 FT. LINE CORD — NOT SHOWN NOISE FILTER - NOT SHOWN

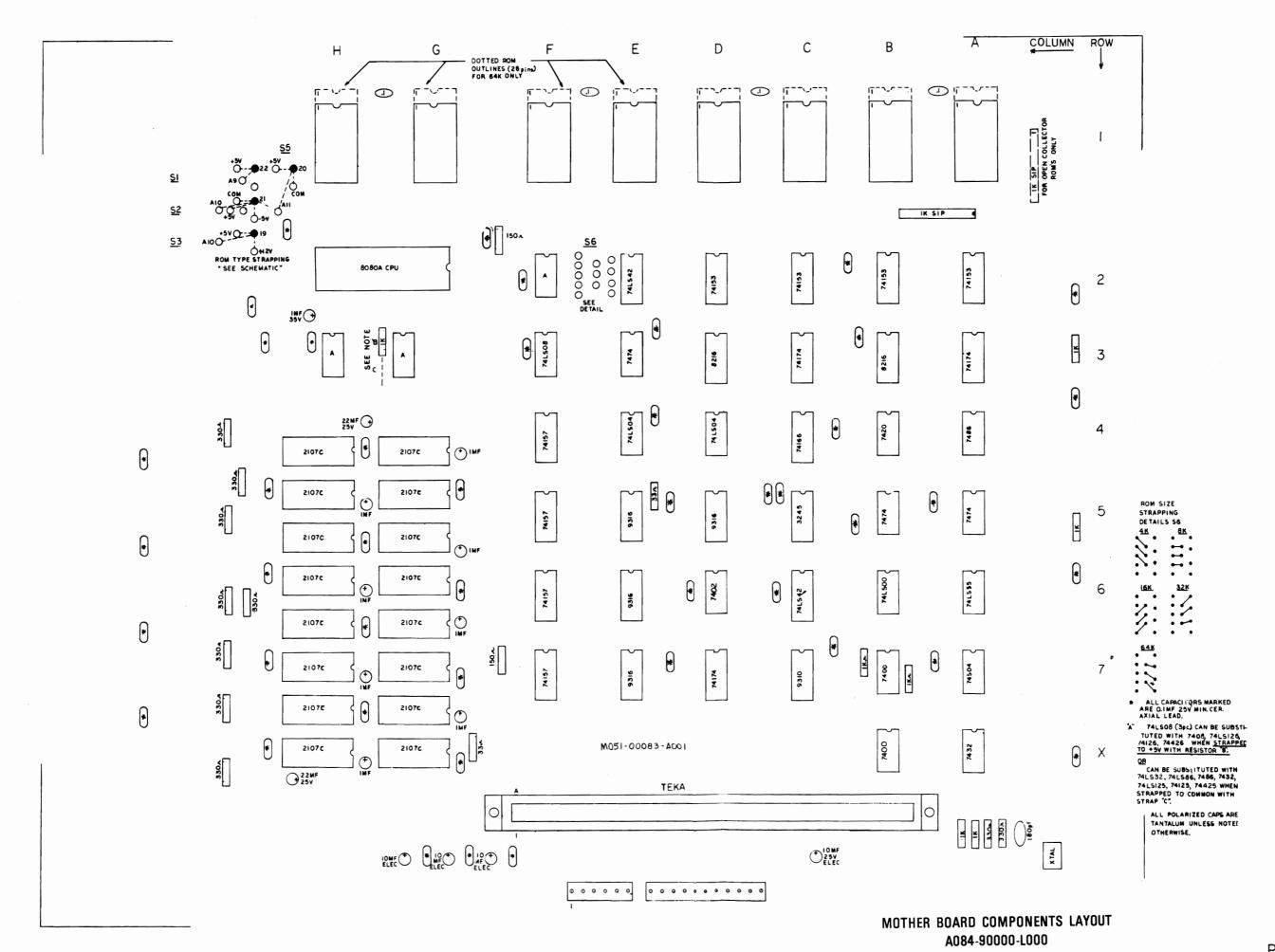
* INDICATES O.IMF. 50V. AXIAL LEAD CERAMIC CAP.

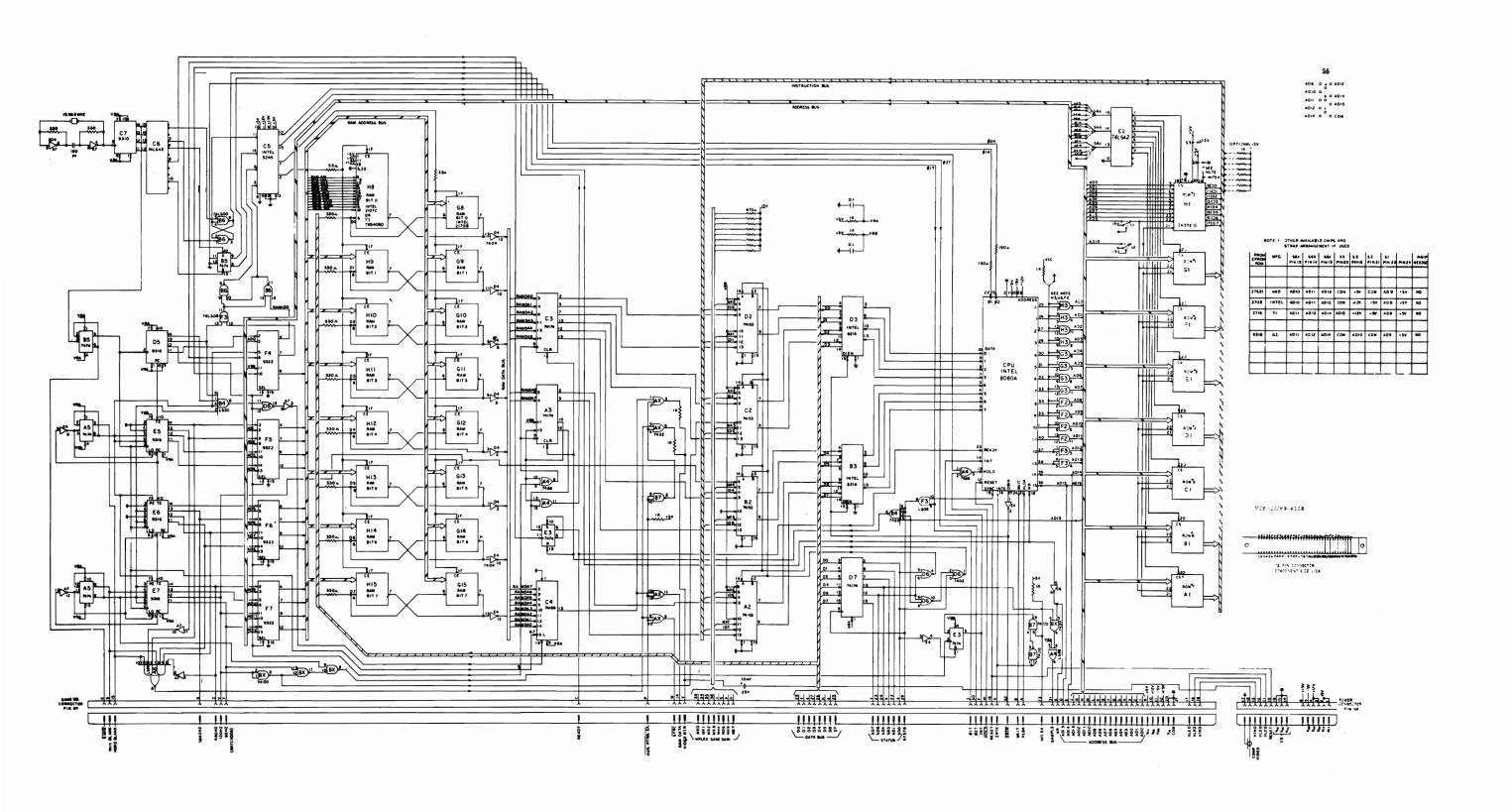


NOTES

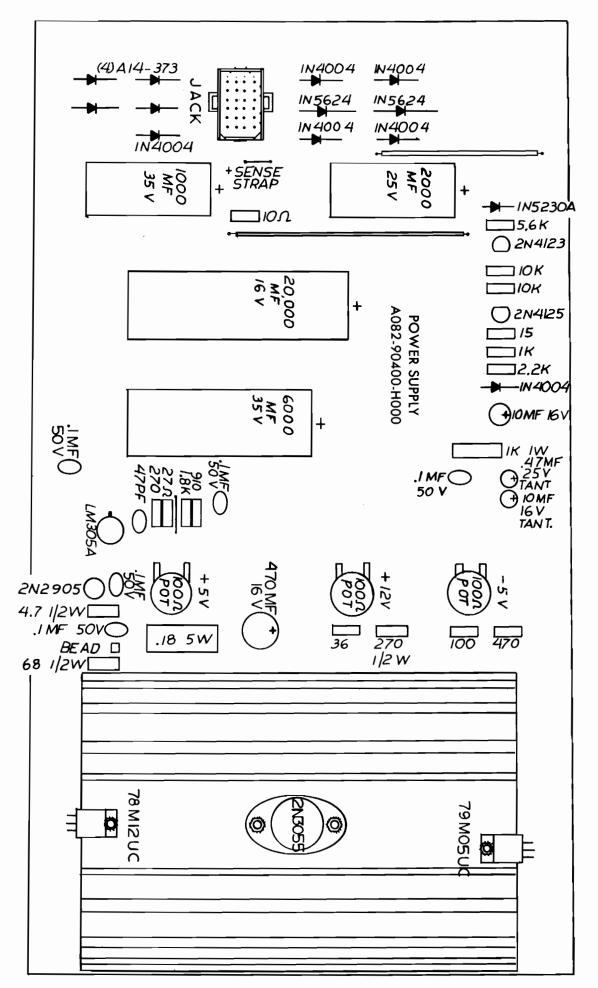
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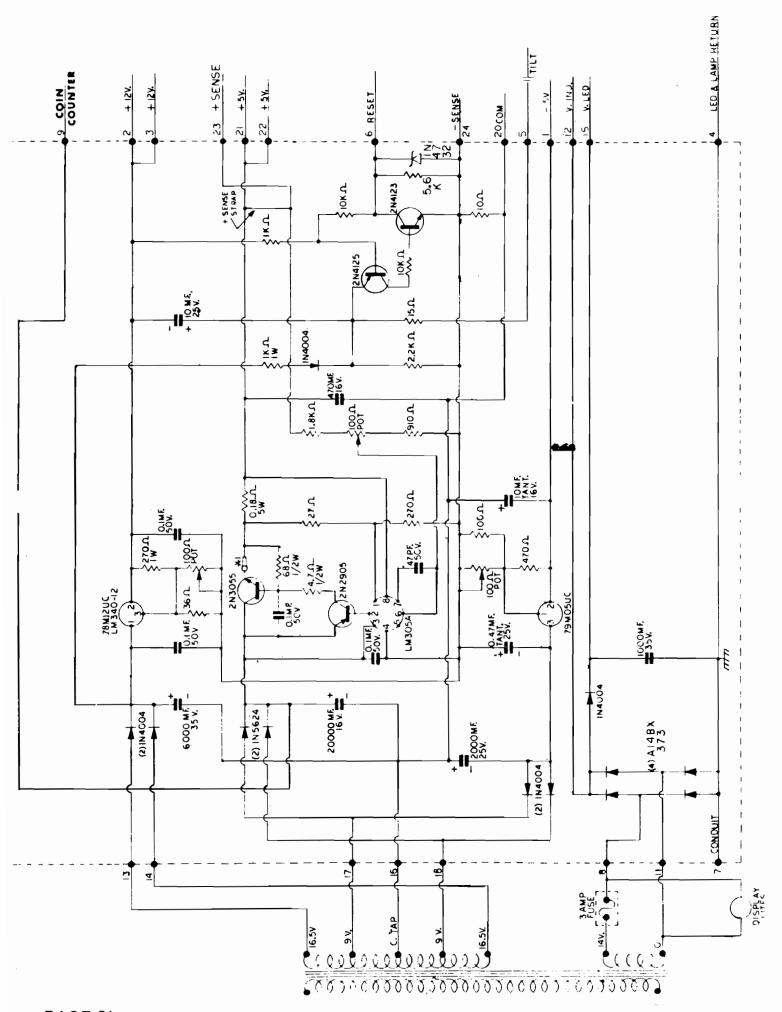


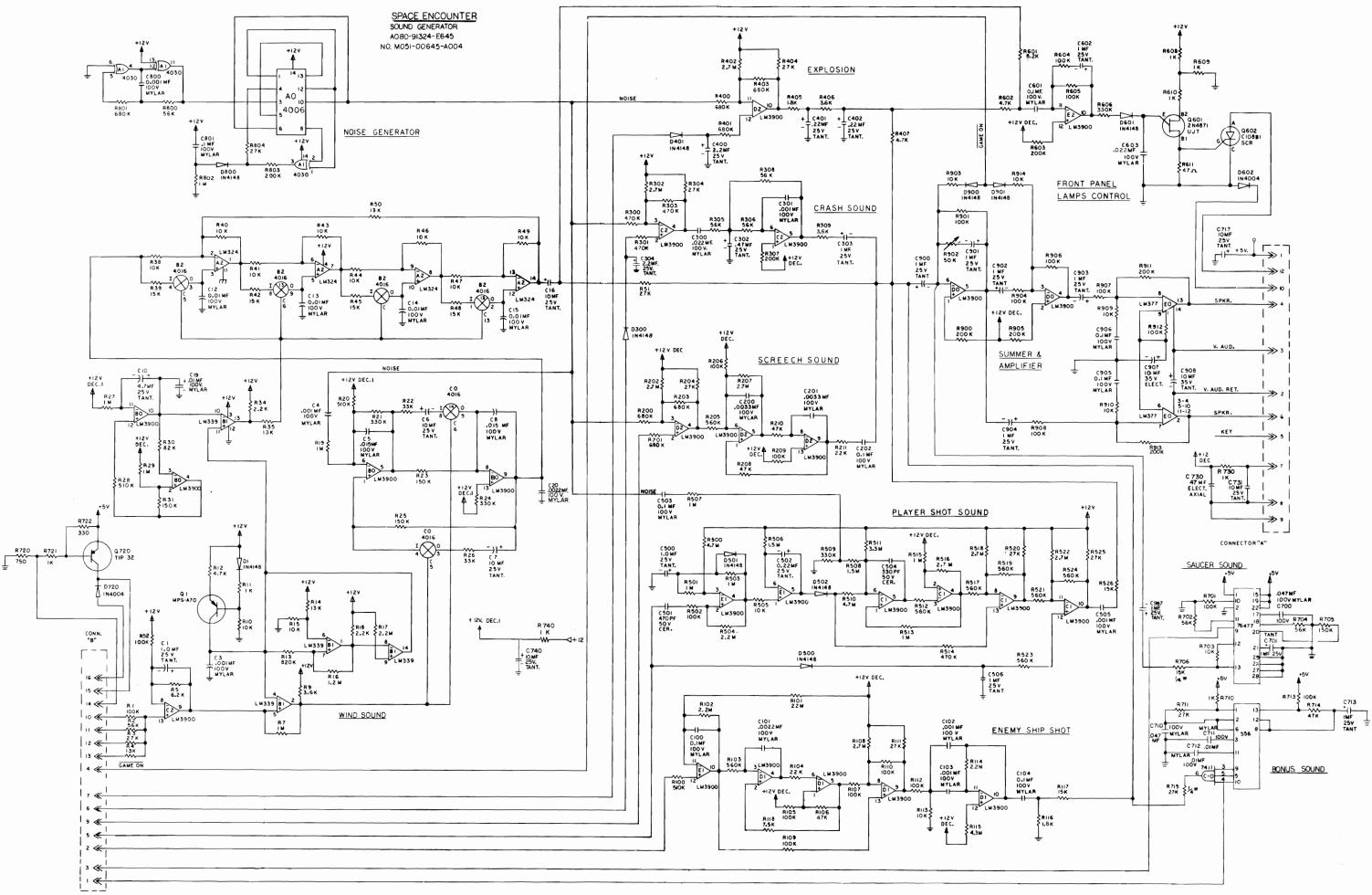




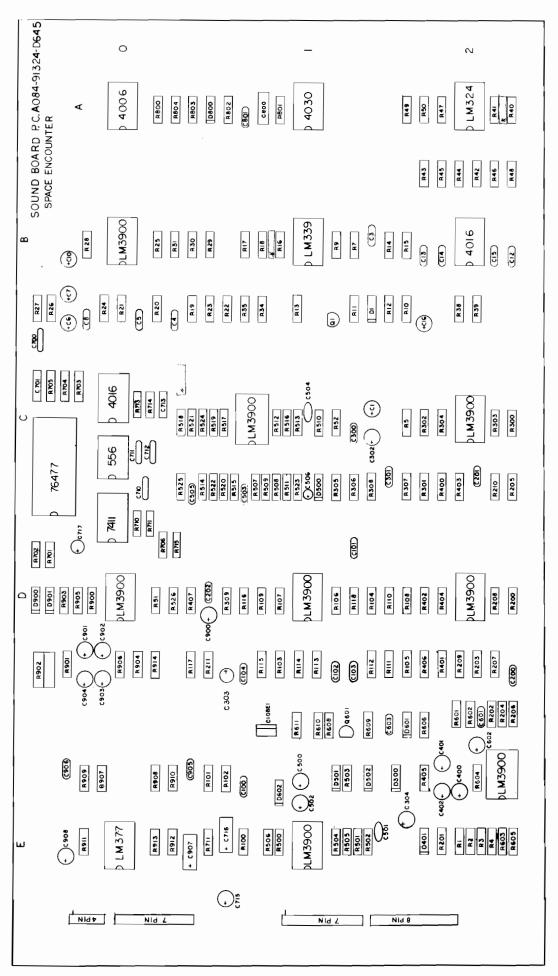
MOTHER BOARD SCHEMATIC A084-90000-L000

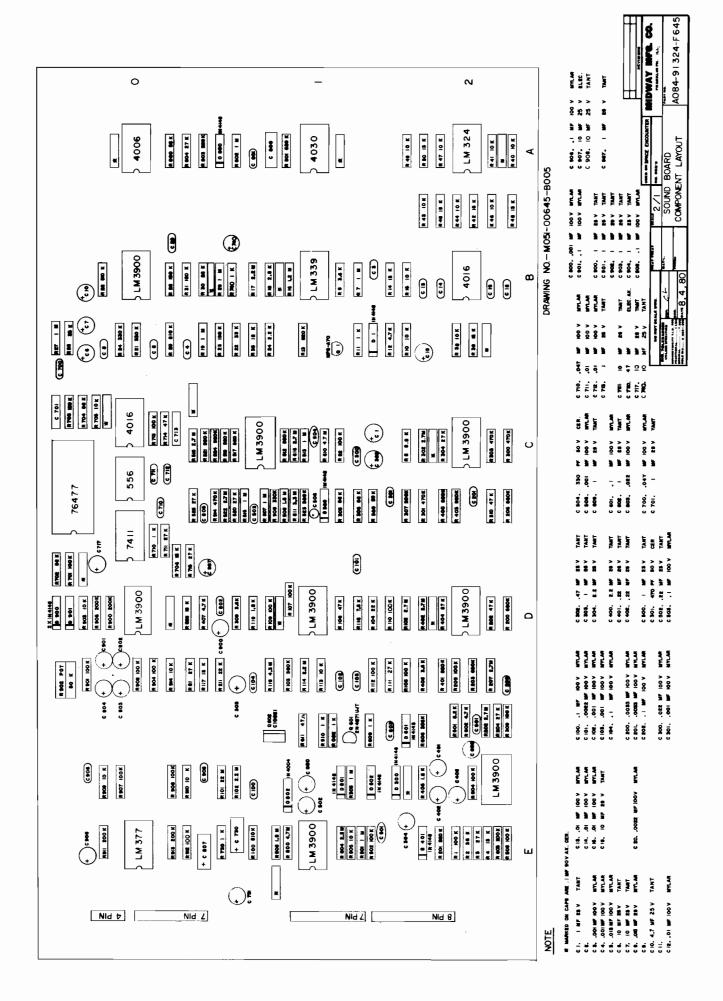


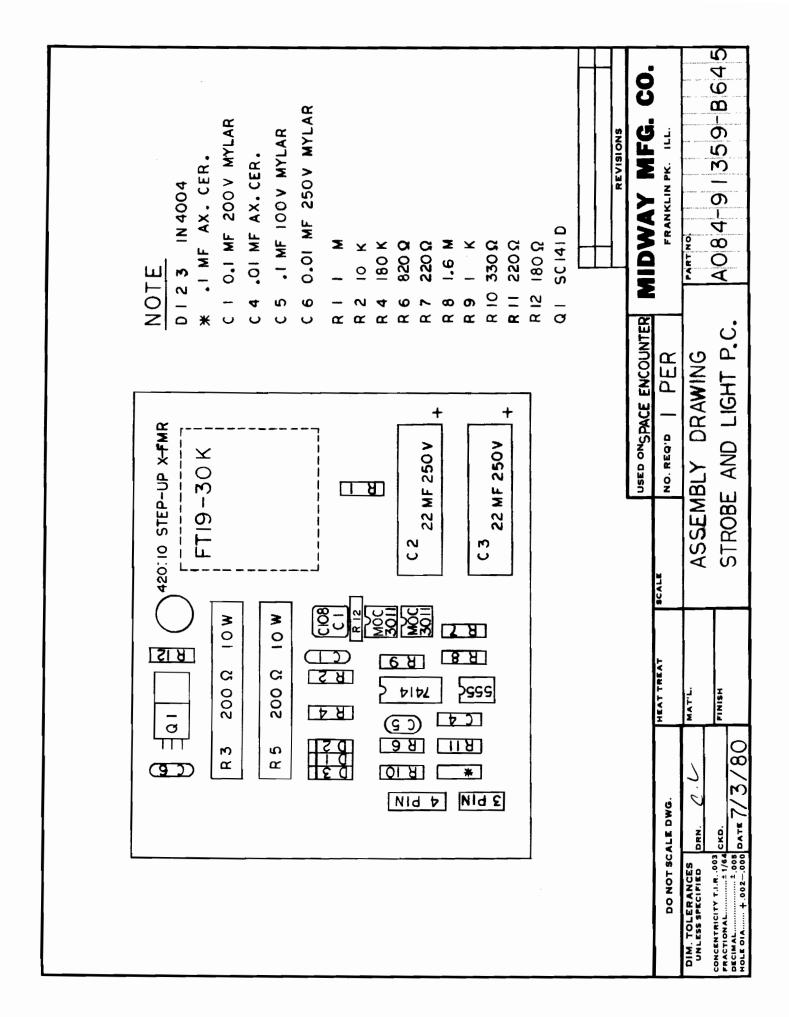




COMPONENT LAYOUT PART NO. MO51-00645-A005

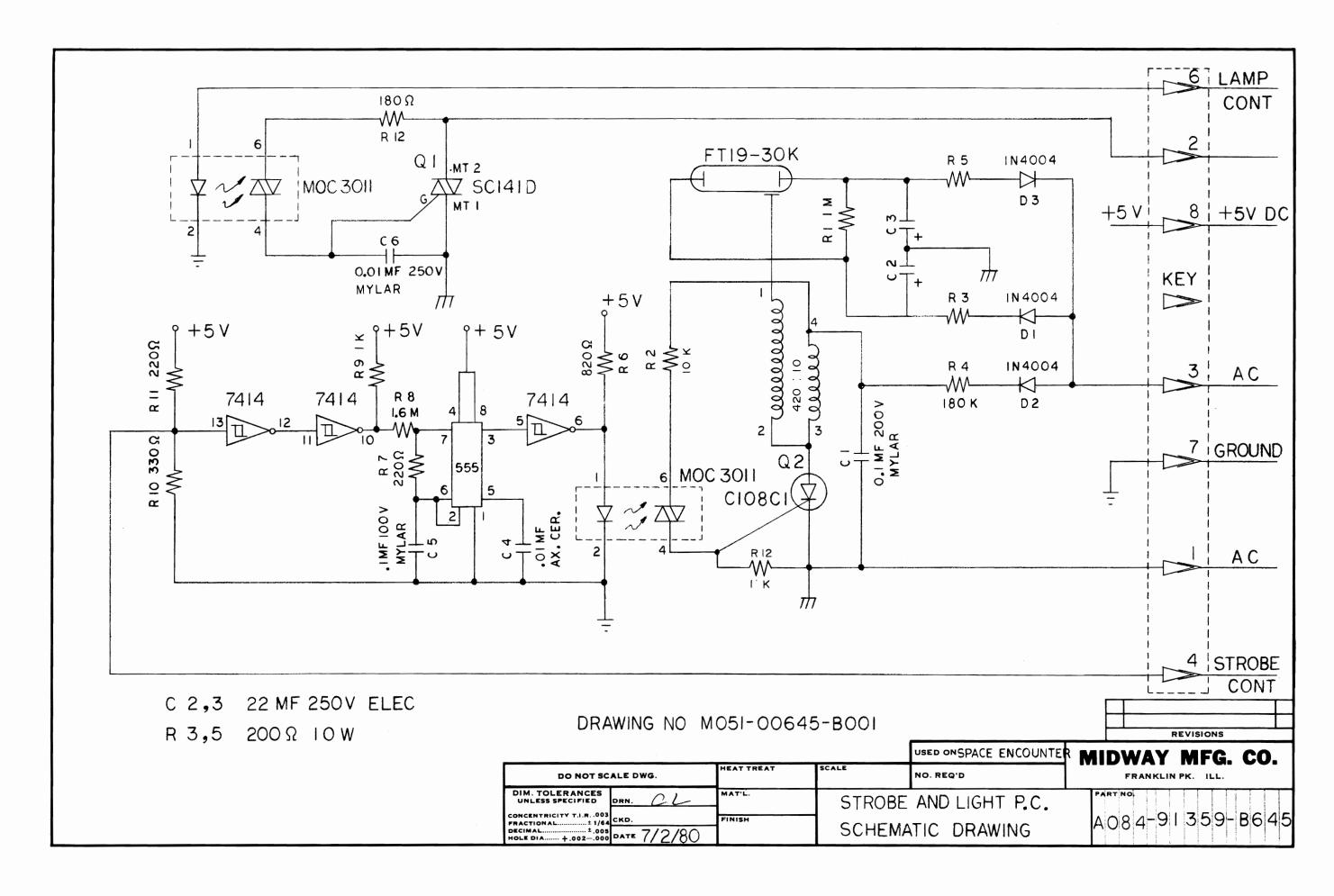


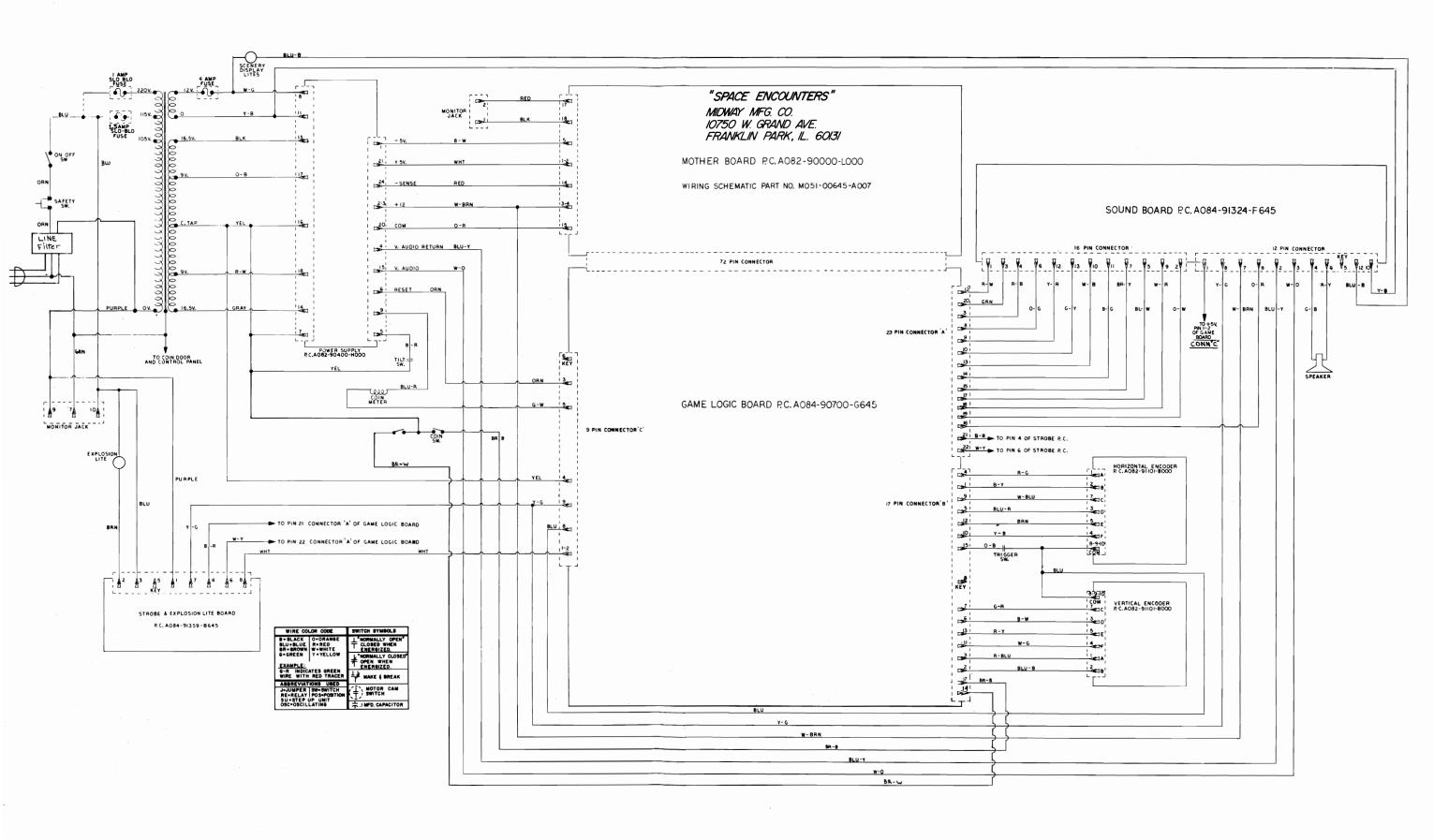


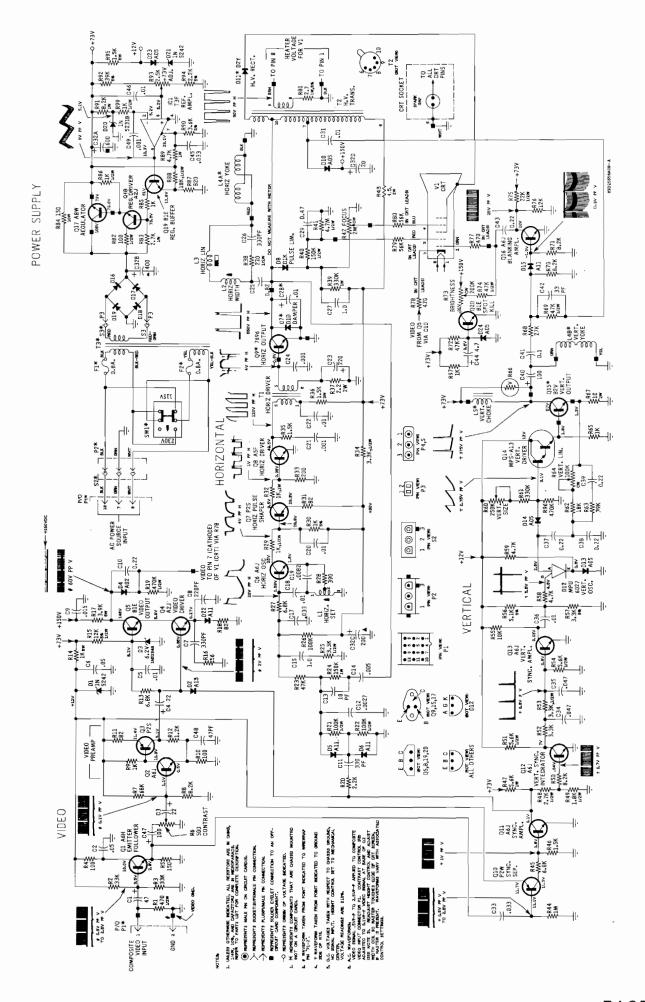


NOTES

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REF. NO.	PART NUMBER	DESCRIPTION	REF. ND.	PART NUMBER	OESCRIPTION
1	TANT WOMBEN	Description	ner. no. 1	TAIT ROMDEN	ocaanii yaa
ELECT	RICAL PART	S	COILS &	CHOKES	
	1Y25017A01	MONITOR PANEL: complete; KT364LM	L·1 L·2	24D68822A08 24D68801A67	HORIZ SET COMPENSATING: 2000 uh
	1Y25017A02	POWER, Audio Panel: complete: KT365LM	L-3 L-4	24D69163A18 24V25000A74	HORIZ LINEARITY HORIZ WIDTH: incls C42 & R68
CAPACIT	ors	K 1000 L	L-5	24D68523A15	DEFLECTION YOKE
C-1	23C65282A41	50 mf 50V Lytic	TRANSI		
C-2 C-3	23C65282A41 21S180D10	50 mf 50V Lytic 220 pf 20% 100V X5F (Use 21R132503)	Q-1 Q-2	48S137171 48S137127	1st VIDEO: A6H 2nd VIDEO: P2S
C-4 C-5	23C65282A41 21S180898	50 mf 50V Lytic 180 pf 10% 500V X5F	Q-3 Q-4	48S134919 48S137317	VIDEO OUTPUT: A1M VIDEO DRIVER: A8H
.C-6	23S10255A78	470 mf 16V Lytic	Q-5 Q-6	48S137115 48S137172	SYNC SEPERATOR: A5U HORIZ OSCILLATOR: A6J
C-7 C-8	21S180C01 21S180885	680 pf 10% 500V X5F 560 pf 10% 500V X5F	Q-7 Q-8	48S137127 48S137093	HORIZ PULSE SHAPER: P2S HORIZ DRIVER: A5F
C-10 C-11	8S10191867 8S10191A54	.22 mf 10% 250V Polyester .0068 mf 10% 160V Polyester	Q-9 Q-10	48S137203 48S137173	HORIZ OUTPUT: A6Z VERT OSCILLATOR (1): P2W
C-12 C-13	21S180D10 21S131625	220 pf 20% 100V X5F (Use 21R132503) 330 pf 10% X5F	Q-11 Q-12	48S137171 48S137115	VERT OSCILLATOR (2): A6H VERT DRIVER: A5U
C-15	21S180C41	.0027 mf 10% 500V Z5F (Use 21K 121699)	Q-13 Q-14	48S134900 48S134952	VERT OUTPUT: A1C REGULATOR DRIVER; A2J
C-16	23S10229A07	1.0 mf +40-20% 15V Lytic (Use 23C43280A17)	Q-15 Q-16	48S137315 48S137368	REFERENCE AMP: A8G
C-17 C-18	8510191B90 8510299A73	.033 mf 10% 160V Polyester .01 mf 10% 100V Poly carb	Q-17	48\$137172	AUDIO DRIVER: A6J
C-19 C-20	8S10299A74 8S10191B98	.0082 mf 10% 160V Poly carb .01 mf 10% 250V Polyester	Q-18 Q-19	48S137168 48S137169	AUDIO OUTPUT: P2V 5V REGULATOR, Driver: A6G
C-21 C-22	21S180851 8S10191B98	.001 mf 10% 500V X5F .01 mf 10% 160V Polyester	Q-20 Q-21	48S137344 48S137476	5V REGULATOR: A8U SPOT KILLER: B1E
C-23	21S180C02	10 pf 10% N150 150 mf 10V Lytic	CONTRO	OLS	
C-24 C-25	23D65282A40 21S180851	.001 mf 10% 500V X5F	R-5	18D68222A34	CONTRAST: 250 Ohm
C-26 C-27	8S10212853 8S10212A11	.47 mf 10% 630V Mtlz Poly 1.0 mf 10% 630V Mtlz Poly	R-10 R-17	18D66401A44 18D67858A12	VIDEO BIAS: 4K FOCUS: 2 meg
C-28 C-29	8S10571A06 8S10571A23	.01 mf 5% 1200V Poly Prop Foil .56 mf 10% 250V Mtlz Prop Foil	R-21 R-34	18D68222A35 18D68222A37	BRIGHTNESS: 200K HORIZ HOLD: 25K
C-30 C-31	8S10191A32 21S180B87	.047 mf 10% 250V Polyester 220 pf 10% 500V X5F	R-59 R-65	18D66401A44 17D65820A38	VERT LINEARITY: 4K VERT SIZE: 15 Ohm
C32 C-33	21S180D34 8S10212A69	.005 mf 20% 1KV Z5F (Use 21S180D31) .47 mf 10% 100V Mtlz Poly	R-74 R-82	17D65820A37 18D68222A36	REGULATOR ADJUST: 2K VERT HOLD: 3K
C-34 C-35	8S10191A32 8S10191B98	.047 10% 250V Polyester .01 mf 10% 250V Polyester	R-85	18D68222A34	VOLUME: 250 Ohm
C-36 C-37	23S10255A69 8S10212A20	4.7 mf 100V Lytic 2.2 mf 10% 100V Mtzi Poly	RESISTO		
C-38	8S10212A20	2.2 mf 10% 100V Mtlz Poly	R-1 R-2	6S127633 6S125568	470 10% 1/2W 22K 10% 1/2W
C-39 C-40	8S10191B67 8S10212A10	.22 mf 10% 250V Polyester 1.0 mf 10% 100V Mtlz Poly (Use	R-3 R-4	6S127541 6S127633	56K 10% 1/2W 470 10% 1/2W
C-41	8S10064A06	8S10191A46 .01 mf 10% 600V Mylar	R-6 R-7	6S128955 6S121847	1500 10% 1W 4700 10% 1/2W
C-42 C43	21S180A71 23C65807A47	470 pf 10% 500V X5F 400 mf/125V; 600 mf/50V;	R-8 R-9	6S122445 6S119926	1800 10% 1/2W 2700 10% 1/2W
C-44	21S180E60	20 mf/200V Lytic .01 mf +80-20% 50V Z5V	R-11 R-12	6S128226 6S127633	120 10% 1/2W 470 10% 1/2W
C-47 C-49	*23C65807A52 23S10255A31	5000 mf 20V Lytic 470 mf 40V Lytic	R-13 R-14	17S10731A02	7500 5% 5W WW
C-50 C-51	23D65282A41 23S10255B43	50 mf 50V Lytic 40 mf 100V Lytic	R-15	6S124797 6S127516	150 10% 1/2W 82 10% 1/2W
Ι,	RECTIFIERS	10 m 100 Lytte	R-18 R-19		Part of CRT socket assembly Part of CRT socket assembly
D-1	48S134921 48S134978	DIODE, Silicon: D1D; Damper DIODE, Silicon: D1K; Pulse Limiter	R-20 R-22	6S129296	Part of CRT socket assembly 270K 10% 1/2W
D-2 D-3	48D67120A11	DIODE, Low Power	R-23 R-24	6S10053C67 6S127538	27K 5% 1/2W 3.3 meg 10% 1/2W
D-4 D-5	48S137114 48S191A05	RECTIFIER, H. V.: Silicon; D2Y RECTIFIER, Silicon: 91A05 (Use	R-25 R-26	6S121300 6S127541	27K 10% 1/2W 56K 10% 1/2W
D-6	485137469	48S191A07) DIODE, Silicon: zener; D7G	R-27 R-28	6S129875 6S125531	2200 10% 1/2W 180K 10% 1/2W
D-7 D-8	48S134917 48S67120A11	DIODE, Dual: D1C; Detector DIODE, Low Power	R-29 R-30	6S125531 6S125892	180K 10% 1/2W 47K 10% 1/2W
D-9 D-10	*48S191A10 48S191A10	RECTIFIER, Silicon: 91A10 RECTIFIER, Silicon: 91A10	R-31 R-32	6S125534 6S124506	100K 10% 1/2W 3300 10% 1/2W
D-11 D-12	48S101A10 48S191A10	RECTIFIER, Silicon: 91A10 RECTIFIER, Silicon: 91A10	R-33 R-35	6S10053C53	6800 5% 1/2W 56K 10% 1/2W
D-13 D-14	48D67120A11 48S191A05	DIODE, Low Power RECTIFIER, Silicon: 91A05	R-36	6S127541 6S125545	390 10% 1/2W
D-15	48S191A05	(Use 48S191A07) RECTIFIER, Silicon: 91A05	R-37 R-38	6S121301 6S10053C33	1000 10% 1/2W 1000 5% 1/2W
1		(Use 48S191A07) RECTIFIER, Silicon: 91A05	R-39 R-40	6S127516 6S127547	82 10% 1/2W 1000 10% 1W
D-16	48S191A05	(Use 48S191A07)	R-41 R-42	6S127099 6S127513	220 10% 1/2W 1500 10% 1/2W
D-17	48S191A05	RECTIFIER, Silicon: 91 A05 (Use 485191A07)	R-43 R-44	17S10130B07 17S744356	1500 10% 3W fxd mtl film 2.2 10% 2W WW
D-18	48S191A05	RECTIFIER, Silicon: 91A05 (Use 48S191A07)	R-45 R-46	6S120141 6S127634	150K 10% 1W 33K 10% 1W
D-19 D-20	48D67120A11 •48S10641D43	DIODE, Low Power DIODE, Silicon: D4.3	R-47 R-48	6S128229 6S10053D21	680K 10% 1/2W 4.7 meg 10% 1/2W
D-21 D-22	48D67120A11 48S191A05	DIODE, Low Power RECTIFIER, Silicon: 91A05	R-49 R-50	6S124797 6S10053C45	150 10% 1/2W 3300 5% 1/2W
D23	48S191A05	(Use 48S191A07) RECTIFIER Silicon: 91A05	1R-52	6S124506 6S129874	3300 5% 1/2W 3300 10% 1/2W 68 10% 1/2W
		(Use 48S191A07)	R-53 R-54	6S131972	39 10% 1/2W
FUSES	656430404	EUSE: 14.250V	R-55 R-56	6S10053C65 6S125535	22K 5% 1/2W 39K 10% 1/2W
F-1 F-2	65S139424 65S139424	FUSE: 1A-250V FUSE: 1A-250V	R-57 R-58	6S124506 6S129793	3300 10% 1/2W 82K 5% 1/2W
1	TED CIRCUITS	INTEGRATED COOLUT. TOS	R-60 R-61	6S129875 6S10053F29	2200 10% 1/2W 820 10% 1W
IC-1	*51S10732A01	INTEGRATED CIRCUIT: T3F	R-62	6S127515	3900 10% 1/2W
L					

REPLACEMENT PARTS LIST

REF. NO.	PART NUMBER	OESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
1					
R-63	6S121301	1000 10% 1/2W	1	50V25008A22	SPEAKER: 4" PM; incls D22
R-64	17S10130C91	10 10% 1/2W (special)	E-1	65S139451	LAMP: No. 1436
R-66	6S129064	4700 10% 1W			
R-67	6S122848	18K 10% 1/2W			
R-68	6S124797	150 10% 1/2W	IME CI	LANUCAL DAD	TC
R-69	17S647132	1200 10% 5W WW	INFCL	IANICAL PAR	13
		(Use 17S136197)			
R-71	6S119926	2700 10% 1/2W			OAR OOR - WIN Transfermer
R-72	6S124551	15K 10% 1/2W		9D66133A28	CAP, SS Rect (HV Transformer –
R-73	6S129875	2200 10% 1/2W			PRI/SEC lead)
R-75	6S121301	1000 10% 1/2W		42B25158A01	CLAMP, Metal : Defl Yoke Mtg
R-76	6S124506	3300 10% 1/2W		31D70080B04	CONNECTOR, PC panel: 9 contact;
R-77	6S129221	100 10% 1/2W			on chassis
R-78	6S127005	5600 10% 1/2W	S·2	*15S10390A06	CONNECTOR, PC panel: 12 contact;
R-79	17S135589	150 10% 10W WW			less key and contacts (power-audio panel
R-81	6C66263A08	VARISTOR (Use 6S66263A16)	P-1	*15S10183A69	CONNECTOR, Plug: 12 contact; less
R-86	6S127099	220 10% 1/2W			contacts (power)
R-88	6S121301	1000 10% 1/2W			
R-89		Part of CRT Socket		*39S10184A63	CONTACT, Plug: for power connector
R-90	6S131412	56 10% 1/2W			15S10183A69
R-91	6S10053C39	1800 5% 1/2W		39S10184A22	CONTACT: for S2 connector
R-92	6S10053C57	10K 5% 1/2W		15S10630A01	COVER, nylon: slide switch; SW1
R-95	6S125568	22K 10% 1/2W		*7S10609A03	GROMMET, Plastic: PC panel mtg
R-96	6S125568	22K 10% 1/2W 22K 10% 1/2W		26C66745A05	HEAT SINK: Q3
R-90	6S121847	4700 10% 1/2W		*26C25198A01	HEAT SINK: Q20
R-98	6S127099	220 10% 1/2W		9C66238A02	HOLDER, Fuse: F1 & F2
R-98 R-99	6S128226	120 10% 1/2W 120 10% 1/2W		14A562353	INSULATOR, Mica: Transistor socket;
H-99	65128226	120 10% 1/2W			Q9, Q13, Q16 & Q20 (Use 14A543810)
				28S10733A01	KEY, Plug: for S2 connector
SWITCH	ES			2S7051	NUT, hex: 3/8-32; control mtg
SW-1	40S10624A01	SWITCH, Slide: DPDT (115V-230V)		5S10281A03	RIVET, drive pin: nylon; HV transf mtg
344-1	40310024701	34411 (11, 3), 40. (1, 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.		47C66082A03	ROD, Adjustment: width coil; L4
TRANCE	ORMERS			3S136050	SCREW, tpg: 6-20 x 1/2 clu pan hd;
11171131	Onwich			33130030	Q9, Q13, Q16 & Q20
T-1	25D67440A03	HORIZ DRIVER	1	9S10143A41	SOCKET, lamp: E1
T-2	24D69791A21	H, V, TRANSFORMER: complete	1	9D67555V27	SOCKET, CRT: incls leads & resistors
T-3	25D65840A22	VERT OUTPUT (Use 25D65840B23)			SOCKET, HV Rectifier (4): complete;
T-4	*25D68164A31	POWER		*9D25201A01	
				0000005 4 04	incls 2nd anode lead & cup
MISCELI	LANEOUS ELECTE	RICAL PARTS	ł	9C63825A01	SOCKET, transistor: Q9, Q13, Q16
			1	9C63825A02	SOCKET, transistor: Q20
V-1	20WP4	CRT (XM501-10 19VP111)	1	41D65987A01	SPRING, special: CRT aquadag grnd
	23JEP4	CRT (XM701-10 23VP111)		66P65173A47	TOOL, contact removel (S2 connector)

^{*} DENOTES NEW ITEM APPEARING ON ANY LIST FOR FIRST TIME.

MOTOROLA PARTS DEPT.

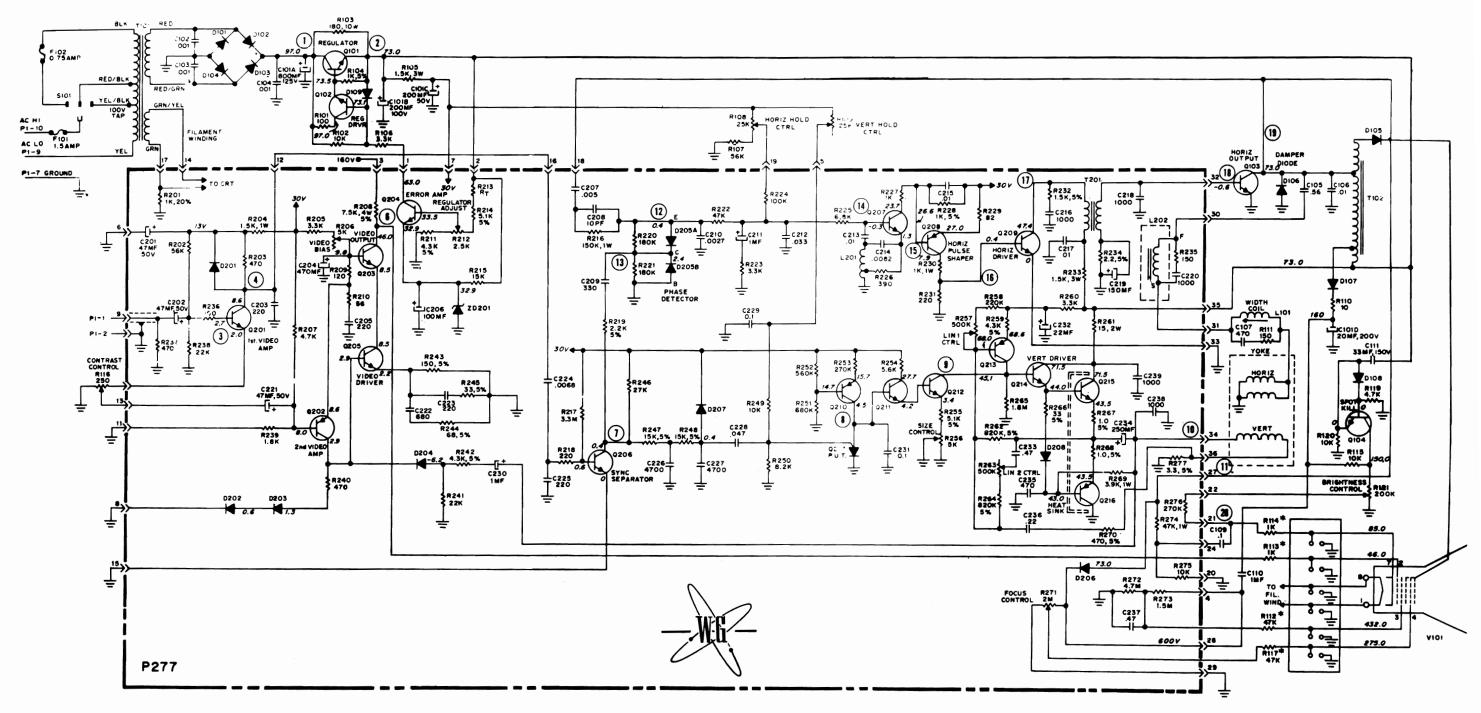
MOTOROLA INC.

1155 HARVESTER RD.

WEST CHICAGO, IL 60185
PHONE (312) 231-4400

NOTES

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NOTES:

- 1. VOLTAGE MAY VARY WITH CONTROL SETTING.
- 2. LINE VOLTAGE MAINTAINED AT 120VAC, 5Q/60 Hz.
- 3 ALL D.C. VOLTAGES 210% MEASURED FROM POINT INDICATED TO CHASSIS USING HIGH IMPEDANCE METER WITH NO SIGNAL INPUT. CONTRAST AND BRIGHTNESS CONTROLS AT MAXIMUM; ALL OTHER CONTROLS IN NORMAL OPERATING POSITION.
- 4. O-WITH INTERNAL NUMBER INDICATES LUCATION OF WAVE FORM READING.

2701 N. KILDARE AVE. • CHICAGO, ILL. 60639 • ALBANY 2-8220

TELEX 25-3286

- * INDICATES RESISTORS LOCATED IN PICTURE TUBE LEAD ASSEMBLY.
- RESISTANCE VALUES IN OHMS, 1/2 WATT, 10% UNLESS OTHERWISE NOTED. K-1,000 M-1,000,000
- CAPACITANCE VALUES OF 1 OR LESS ARE IN MICROFARADS. ABOVE 1 IN PICOFARADS UNLESS OTHERWISE NOTED.

MODEL NO.

V1001-5734

REPLACEMENT PARTS LIST

CHASSIS PARTS

CAPACITORS

C101A,		800 μF/125V, 200 μF/100V
B, C, D	45X0558-001	200 μF/50V, 20 μF/200V Electrolytic
C102, 103		
104	80X0001-000	.001 μF, GMV Z5U Cer. Disc.
★C105	342X5642-049	.56 μF, 400V, 10% Polypropylene
★ C106	46X0536-001	.01 μF, 1200V, 5% Polypropylene
C107	80X0099-006	470 pF, Z5F, 10%
C109	342X1044-040	0.1 μF, 400V, 20% Mylar
★C110	46X0540-002	1.0 μF, 630V, 10% Polyester Film
C111	45X0515-032	33 μF, 150V, Electrolytic

CONTROLS

R108, 109	40X0585-091	25k Ohm, Horiz & Vert. Hold
R116	40X0585-090	250 Ohm, Contrast
R121	40X0585-092	200k Ohm, Brightness

COILS & TRANSFORMERS

★L101	9A2787-001	Coil, Width
★ T101	53X0475-001	Transformer, Power
★ T102	53X0474-001	Transformer, Flyback

RESISTORS

R101 R102, 115,	340X3101-941	100 Ohm, 10%, 1/2W
120	340X3103-941	10k Ohm, 10%, 1/2W
★R103	340X0181-341	180 Ohm, 10%, 10W, WW
R104	340X3102-931	1k Ohm, 5%, 1/2W
★R105	340X6152-341	1.5k Ohm, 10%, 3W, WW
R106	340X3332-941	3.3k Ohm, 10%, 1/2W
R107	340X3563-941	56k Ohm, 10%, 1/2W
R110	340X3100-941	10 Ohm, 10%, 1/2W
R111	340X3151-941	150 Ohm, 10%, 1/2W
R119	340X3472-941	4.7k Ohm, 10%, 1/2W

SEMICONDUCTORS

D101, 102		
103, 104	66X0023-009	Rectifier, Silicon 500V 1N444B
★ D105	66X0067-001	Rectifier Varo H1802
★ D106	66X0068-001	Diode, Damper MR1-1600
D107	66X0053-001	Diode, 350V Amperex BA148
D108, 109	66X0046-001	Diode, Silicon FDH444
★ Q101	86X0117-001	Transistor (NPN) 2N5632 Regulator
Q102	86X0071-001	Transistor (NPN) Reg. Driver MPSA06
★ Q103	86X0118-001	Transistor (NPN) BU207 Hor. Output
Q104	86X0065-001	Transistor (NPN) D40N5 Spot Kill

MISCELLANEOUS

	16X0171-001	Fuse Holder
★F101	16X0176-001	Fuse, 1.5 Amp. Slo-Blo 3AG
★F102	16X0175-001	Fuse, 0.75 Amp, Slo-Blo 3AG
*	13X1201-001	HV Lead & Recept, Assy.
	28X0789-001	Spring, Dag, Grounding
*	9A2786-001	Deflection Yoke & Clamp
★ V101	19VARP4	CRT (19V1001)
or	or	
★ V101	22VATP4	CRT (22V1001)
	38A5473-000	2 PDT Small Relay (W/Wires)
	38A5474-000	6 PDT Large Relay (W/Wires)

[★] Product Safety Device

REPLACEMENT PARTS LIST P277 CIRCUIT BOARD ASSY.

CAPACITORS

RESISTORS (Cont'd.)

C201, 202,			R220, 221	340X3184-944	180k Ohm, 10%, 1/2W
221	45X0524-027	47 μF, 50V, Electrolytic	R222	340X3473-944	47k Ohm, 10%, 1/2W
C203, 205,		, , , , , , , , , , , , , , , , , , , ,	R224	340X3104-944	100k Ohm, 10%, 1/2W
223, 225	80X0099-057	220 pF, 10%, Z5F, Cer. Disc.	R225		6.8k Ohm, 10%, 1/2W
C204	45X0524-053	470 μF, 16V, Electrolytic		340X3682-944	
C206	45X0524-051	100 μF, 50V, Electrolytic	R226	340X3391-944	390 Ohm, 10%, 1/2W
C207	80X0099-192	.005 μF, 20%, 1KV, Cer. Disc.	R227	340X3102-944	1k Ohm, 10%, 1/2W
C208	80X0099-036	10 pF, 10%, 500V, Cer. Disc.	R228	340X3102-934	1k Ohm, 5%, 1/2W
C209	80X0099-013	330 pF, 10%, 500V, Cer. Disc.	R229	340X3820-944	82 Ohm, 10%, 1/2W
	349X4722-109		★R230	340X4102-843	1k Ohm, 10%, 1.0W
C210		.0027 μF, 10%, Mylar	R232	340X3152-934	1.5k Ohm, 5%, 1/2W
C211	45X0524-023	1.0 μF, 15V, Electrolytic	★ R233	340X6152-743	1.5k Ohm, 10%, 3.0W
C212	349X3332-109	.033 μF, Mylar	R234	340X5022-333	2.2 Ohm, 5%, 2.0W
C213	46X0537-002	.01 μF, Poly	R235	340X3151-944	150 Ohm, 10%, 1/2W
C214	46X0537-003	.0082 μF, Poly	R236	340X3101-944	100 Ohm, 10%, 1/2W
C215	349X1032-109	.01 μ F, 10%, 100V Mylar	R238, 241	340X3223-944	22k Ohm, 10%, 1/2W
C216, 218,			R239	340X3182-944	1.8k Ohm, 10%, 1/2W
220, 238,			R243	340X3151-934	150 Ohm, 5%, 1/2W
239	80X0099-076	1000 pF, 10%, 500V, Cer. Disc.	R244	340X3680-934	68 Ohm, 5%, 1/2W
C217	349X1032-209	.01 μF, 10%, 200V, Mylar	R245, 266	340X3330-934	33 Ohm, 5%, 1/2W
C219	45X0524-052	150 μF, 10V, Electrolytic	R246	340X3273-944	27k Ohm, 10%, 1/2W
C222	80X0099-137	680 pF, 10%, 500V, Cer. Disc.	R247, 248	340X3153-934	15k Ohm, 5%, 1/2W
C224	349X6822-109	.0068 μF, 10%, 100V, Mylar	R249, 275	340X3103-944	10k Ohm, 10%, 1/2W
C226, 227	80X0099-056	4700 μF, 10%, 500V, Cer. Disc.	R250	340X3822-944	8.2k Ohm, 10%, 1/2W
C228	349X4732-109	.047 μF, 10%, 100V, Mylar	R251	340X3684-944	680k Ohm, 10%, 1/2W
C229	349X1044-109	0.1 μF, 20%, 100V, Mylar	R252	340X3564-944	560k Ohm, 10%, 1/2W
C230	45X0515-014	1.0 μF, 50V, Electrolytic	R253, 276	340X3274-944	270k Ohm, 10%, 1/2W
C231	349X1042-109	0.1 μF, 10%, 100V, Mylar	R254	340X3562-944	5.6k Ohm, 10%, 1/2W
C232	45X0524-026	22 μF, 100V, Electrolytic	R258	340X3224-944	220k Ohm, 10%, 1/2W
C233	349X4742-109	.47 μF, 10%, 100V, Mylar	★R261	340X5150-843	15 Ohm, 10%, 2.0W
C234	45X0524-025	250 μF, 100V, Electrolytic	R262, 264	340X3824-934	820K Ohm, 5%, 1/2W
C235	80X0099-006	470 pF, 10%, Z5F, Cer. Disc.	R265	340X3185-944	1.8M Ohm, 10%, 1/2W
C236	349X2242-109	.22 μF, 10%, 100V, Mylar	R267, 268	340X3010-934	1 Ohm, 5%, 1/2W
C237	46X0540-001	.47 μF, 10%, 630V, Polyester Film	R269	340X4392-843	3.9K Ohm, 10%, 1/2W
			R270	340X3471-934	470 Ohm, 5%, 1/2W
	CC	ONTROLS	R272	340X3475-944	4.7M Ohm, 10%, 1/2W
		7.1.1.0 = 0			
R206 256	40Y0592-008	5k Ohm Video Output Size	R273	340X3155-944	1.5M Ohm, 10%, 1/2W
R206, 256	40X0592-008	5k Ohm, Video Output, Size	R273 ★R274	340X3155-944 340X4473-843	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W
R212	40X0585-093	2.5k Ohm, Reg. Adj.	R273	340X3155-944 340X4473-843 340X3033-934	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W
R212 R257, 263	40X0585-093 40X0592-004	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2	R273 ★R274	340X3155-944 340X4473-843	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W
R212	40X0585-093	2.5k Ohm, Reg. Adj.	R273 ★R274	340X3155-944 340X4473-843 340X3033-934	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W
R212 R257, 263	40X0585-093 40X0592-004 40X0585-094	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus	R273 ★R274 R277	340X3155-944 340X4473-843 340X3033-934	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W
R212 R257, 263	40X0585-093 40X0592-004 40X0585-094	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2	R273 ★R274	340X3155-944 340X4473-843 340X3033-934	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W
R212 R257, 263 R271	40X0585-093 40X0592-004 40X0585-094 COILS &	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS	R273 ★R274 R277	340X3155-944 340X4473-843 340X3033-934	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W
R212 R257, 263 R271 ★L201	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc.	R273 ★R274 R277 D201, 202, 203, 204,	340X3155-944 340X4473-843 340X3033-934 SEMICONI	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS
R212 R257, 263 R271 ★L201 ★L202	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin.	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B	340X3155-944 340X4473-843 340X3033-934 SEMICONI	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS
R212 R257, 263 R271 ★L201	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc.	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102
R212 R257, 263 R271 ★L201 ★L202	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102
R212 R257, 263 R271 ★L201 ★L202	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin.	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904
R212 R257, 263 R271 ★L201 ★L202 ★T201	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205,	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF
R212 R257, 263 R271 ★L201 ★L202 ★T201	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 k Ohm, 20%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0114-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906
R212 R257, 263 R271 ★L201 ★L202 ★T201	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 k Ohm, 20%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0114-001 86X0071-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN)
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237,	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0114-001 86X0071-001 86X0071-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN) Transistor (NPN)
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944 340X3471-944	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 470 Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0114-001 86X0071-001 86X0071-001 86X0058-002	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN) Transistor (NPN) Transistor (NPN) MPSA06 Transistor (NPN) MPSA20
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 470 Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0114-001 86X0071-001 86X0071-001 86X0058-002	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN)
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223,	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944 340X3471-944 340X4152-843	2.5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 156k Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1.0W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN) Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944 340X471-944 340X4152-843 340X3332-944	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 1.5k Ohm, 10%, 1/2W 3 3.3k Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q210 Q213	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor (NPN) MPSA20 Transistor (NPN) MPSA20 Transistor (NPN) MPSA20 Transistor (NPN) MPSA70 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56
R212 R257, 263 R271 ★L201 ★L202 ★T201 R202 R203, 237, 240 ★R204 R204 R205, 223, 260 R207	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 FR 340X3102-954 340X3471-944 340X3471-944 340X3332-944 340X3472-944	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 56k Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1/2W 3.3k Ohm, 10%, 1/2W 4.7k Ohm, 10%, 1/2W 4.7k Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X00672-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN) Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70
R212 R257, 263 R271 ★L201 ★L202 ★T201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944 340X3471-944 340X4152-843 340X3332-944 340X3472-944 340X7752-733	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 56k Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1.0W 1.5k Ohm, 10%, 1/2W 1.5k Ohm, 5%, 4.0W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q210 Q213	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN) Transistor (NPN) Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (NPN) MPSA56 Transistor (NPN) MPSA070
R212 R257, 263 R271 ★L201 ★L202 ★T201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944 340X3471-944 340X3472-944 340X3472-944 340X3472-944 340X37752-733 340X3121-944	2.5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 .5k Ohm, 5%, 4.0W 1 .50 Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0073-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN) Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192
R212 R257, 263 R271 ★L201 ★L202 ★T201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944 340X3471-944 340X4152-843 340X3332-944 340X3472-944 340X7752-733	2.5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 .5k Ohm, 5%, 4.0W 1 .50 Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (PNP) 2N3906 Transistor (NPN) Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210 R211, 242,	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944 340X3471-944 340X3472-944 340X3472-944 340X3472-944 340X3472-944 340X3560-944	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 1.5k Ohm, 10%, 1/2W 1 3.3k Ohm, 10%, 1/2W 1 4.7k Ohm, 10%, 1/2W 1 7.5k Ohm, 10%, 1/2W 1 120 Ohm, 10%, 1/2W 1 120 Ohm, 10%, 1/2W 1 56 Ohm, 10%, 1/2W 1 120 Ohm, 10%, 1/2W 1 56 Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216 Q217	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195 Transistor (PNP) 2N5195 Transistor (P.U.T.) MPU131
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210 R211, 242, 259	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3563-944 340X3471-944 340X3472-944 340X3472-944 340X37752-733 340X3121-944 340X3560-944 340X3432-934	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 1.5k Ohm, 10%, 1/2W 1 3.3k Ohm, 10%, 1/2W 1 4.7k Ohm, 10%, 1/2W 1 7.5k Ohm, 10%, 1/2W 1 120 Ohm, 10%, 1/2W 1 120 Ohm, 10%, 1/2W 1 4300 Ohm, 5%, 4.0W 1 4300 Ohm, 5%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216 Q217	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195 Transistor (PNP) 2N5195 Transistor (P.U.T.) MPU131
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210 R211, 242, 259 R213	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 52X0126-001 FI 340X3102-954 340X3563-944 340X3471-944 340X3472-944 340X3472-944 340X3752-733 340X3121-944 340X3560-944 340X3432-934 43X0467-001	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 1.5k Ohm, 10%, 1/2W 1 3.3k Ohm, 10%, 1/2W 1 4.7k Ohm, 10%, 1/2W 1 4.7k Ohm, 10%, 1/2W 1 56 Ohm, 10%, 1/2W 1 56 Ohm, 10%, 1/2W 1 56 Ohm, 10%, 1/2W 1 4300 Ohm, 5%, 1/2W Thermistor	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216 Q217	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195 Transistor (PNP) 2N5195 Transistor (P.U.T.) MPU131
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210 R211, 242, 259 R213 R214, 255	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 FI 340X3102-954 340X3471-944 340X3471-944 340X3472-944 340X3472-944 340X3752-733 340X3121-944 340X3560-944 340X3432-934 43X0467-001 340X3512-934	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216 Q217	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195 Transistor (PNP) 2N5195 Transistor (P.U.T.) MPU131 Diode, Zener 31V
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210 R211, 242, 259 R213 R214, 255 R215	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 FI 340X3102-954 340X3471-944 340X3472-944 340X3472-944 340X37752-733 340X3121-944 340X3432-934 340X3432-934 340X3432-934 340X3512-934 340X3512-934	2:5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 56k Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1.0W 1.5k Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1/2W 1.5k Ohm, 5%, 4.0W 1.20 Ohm, 10%, 1/2W 1.5k Ohm, 10%, 1/2W 1.5k Ohm, 5%, 4.0W 1.20 Ohm, 10%, 1/2W 1.5k Ohm, 5%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216 Q217	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195 Transistor (PNP) 2N5195 Transistor (P.U.T.) MPU131 Diode, Zener 31V
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210 R211, 242, 259 R213 R214, 255 R215 ★R216	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 FI 340X3102-954 340X3471-944 340X3471-944 340X3472-944 340X3472-944 340X3560-944 340X3432-934 340X343121-944 340X35121-944 340X35121-944 340X35121-944 340X3512-934 340X3512-934 340X3153-944 340X4154-843	2.5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 4 1k Ohm, 20%, 1/2W 4 56k Ohm, 10%, 1/2W 4 470 Ohm, 10%, 1/2W 5 1.5k Ohm, 10%, 1.0W 4 3.3k Ohm, 10%, 1.0W 4 4.7k Ohm, 10%, 1/2W 5 6 Ohm, 10%, 1/2W 5 6 Ohm, 10%, 1/2W 5 1.5k Ohm, 5%, 4.0W 5 1.5k Ohm, 5%, 4.0W 5 1.5k Ohm, 5%, 1/2W 5 1.5k Ohm, 10%, 1/2W 5 1.5k Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216 Q217	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195 Transistor (PNP) 2N5195 Transistor (P.U.T.) MPU131 Diode, Zener 31V
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210 R211, 242, 259 R213 R214, 255 R215 ★R216 R217	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 F 340X3102-954 340X3471-944 340X3472-944 340X3472-944 340X3560-944 340X3560-944 340X35121-944 340X35121-944 340X35121-944 340X35121-944 340X35121-944 340X35121-944 340X35121-944 340X35121-944 340X35121-944 340X3512-934 340X3512-934	2.5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 .5k Ohm, 5%, 4.0W 1 120 Ohm, 10%, 1/2W 1 56 Ohm, 10%, 1/2W 1 56 Ohm, 10%, 1/2W 1 56 Ohm, 5%, 1/2W 1 56 Ohm, 5%, 1/2W 1 56 Ohm, 5%, 1/2W 1 50k Ohm, 5%, 1/2W 1 15k Ohm, 5%, 1/2W 1 15k Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216 Q217	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195 Transistor (PNP) 2N5195 Transistor (P.U.T.) MPU131 Diode, Zener 31V
R212 R257, 263 R271 ★L201 ★L202 ★T201 R201 R202 R203, 237, 240 ★R204 R205, 223, 260 R207 ★R208 R209 R210 R211, 242, 259 R213 R214, 255 R215 ★R216	40X0585-093 40X0592-004 40X0585-094 COILS & 9A2788-001 9A2789-001 52X0126-001 FI 340X3102-954 340X3471-944 340X3471-944 340X3472-944 340X3472-944 340X3560-944 340X3432-934 340X343121-944 340X35121-944 340X35121-944 340X35121-944 340X3512-934 340X3512-934 340X3153-944 340X4154-843	2.5k Ohm, Reg. Adj. 500k Ohm, Lin 1 & 2 2M Ohm, Focus TRANSFORMERS Horiz. Osc. Horiz. Lin. Horiz. Driver RESISTORS 1 1k Ohm, 20%, 1/2W 1 56k Ohm, 10%, 1/2W 1 .5k Ohm, 5%, 4.0W 1 .20 Ohm, 10%, 1/2W 1 .5k Ohm, 5%, 1/2W 1 .5k Ohm, 10%, 1/2W 2 .3M Ohm, 10%, 1/2W 2 .3M Ohm, 10%, 1/2W 2 .20 Ohm, 10%, 1/2W	R273 ★R274 R277 D201, 202, 203, 204, 207, 208 D205A, 205B D206 Q201, 205, 206 Q202, 208 Q203 Q204, 212 Q207, 211 Q209 Q210 Q213 Q214 Q215 Q216 Q217	340X3155-944 340X4473-843 340X3033-934 SEMICONI 66X0046-001 66X0066-001 66X0054-002 86X0113-001 86X0071-001 86X0071-001 86X0058-002 86X0116-001 86X0066-001 86X0072-001 86X0073-001 86X0073-001 86X0075-001 86X0075-001	1.5M Ohm, 10%, 1/2W 47k Ohm, 10%, 1.0W 3.3 Ohm, 5%, 1/2W DUCTORS Diode, Silicon FDH444 Diode, Dual, MSD6102 Diode, RCA D2102SF Transistor (NPN) 2N3904 Transistor (NPN) 2N3906 Transistor (NPN) MPSA06 Transistor (NPN) MPSA20 Transistor Horiz, Driver (NPN) 2N6557 Transistor (PNP) MPSA70 Transistor (PNP) MPSA56 Transistor (PNP) MPSA56 Transistor (NPN) MPSU07 Transistor (NPN) MPSU07 Transistor (NPN) 2N5192 Transistor (PNP) 2N5195 Transistor (PNP) 2N5195 Transistor (P.U.T.) MPU131 Diode, Zener 31V

SPACE ENCOUNTERS

GAME LOGIC BOARD [PC - A084 - 90700 - A905]		STROBE AND LIGHT UNIT [PC A084 - 91359]		
	CHIP NUMBER	FUNCTION	DEVICES	FUNCTION
	7400	Quad two input Nand	MDC3011	Opto - Isolator
	7402	Quad two input Nor	SC141D	Triac
	7404	Hex inverter	7414	Hex Schmitt Trigger
	74LS08	Quad two input And	555	Timer
	7417	Hex Buffer	FT19 - 30K	Strobe Light Assembly
	7438	Quad two input Nand Buffer	C108C1	SCR
	7442	BCD-Decimal Decoder	1N4004	Diode
	7474	Dual ''D'' Type Flip - Flop		
	7483	4 Bit Binary Adder		
	74\$89	64 Bit Ram		GENERATOR
	74109	Dual ''JK'' Flip Flop	[PC A084	I - 91324 - F - 645]
	74LS138	3 to 8 line Decoder Multiplexer	CHIP NUMBER	FUNCTION
	74LS153	Dual 4 to 1 line Multiplexer	4006	18 Bit Shift Register
	74157	Quad 2 to 1 line Multiplexer	4016	Quad Electronic Switch
	74161	4 Bit Binary Counter	4030	Quad Exclusive OR
	74174	Hex ''D'' Type Flip Flop	LM324	Quad OP. Amp.
	74175	Quad ''D'' Type Flip Flop	LM339	Quad Voltage Comparator
	74191	Binary up - down Counter	LM377	Dual Audio Amp.
	74S201	256 Bit Ram	556	Dual Timer
	27LS00	256 Bit Ram	76477	Sound Generator
	74 LS298	Quad 2 input Multiplexer	7411	3 Input And
	ADDITIONAL		2N4871	Unijunction Transistor
	DEVICES	FUNCTION	ADDITIONAL	
	2N4401	Transistor	DEVICES	FUNCTION
	TIP-110	Transistor	C108B1	SCR
	1N4004	Diode	MPSA20	Transistor

TIP-32

Transistor

Diode

1N4148